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PEGGY M. HATCH
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20090008
Agency Interest No. 2082

Mr. Jim Hull
Plant Manager
Honeywell International Inc.
P. O. Box 226
Geismar, LA 70734-0226

RE: Part 70 Operating Permit; Hydrofluoric Acid Plant; Honeywell International Inc. - Geismar Complex;
Geismar; Ascension Parish; Louisiana

Dear Mr. Hull:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 22nd of June, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2010.

Permit No.: 2394-V1

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary
CSN:kap
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

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Geismar, Ascension Parish, Louisiana**

I. Background

The Honeywell International Inc. (Honeywell) - Geismar Complex, an existing chemical manufacturing facility, began operation in 1967. The Honeywell - Geismar Complex consists of the Fluorocarbon Plants which produce fluorocarbon products under Part 70 Operating Permit No. 0180-00003-V1 issued on January 17, 2007, and a Hydrofluoric Acid (HF) Plant which produces hydrofluoric acid under Part 70 Operating Permit No. 2394-V0 issued on June 22, 2006.

In 2005, Honeywell replaced two emergency generator sets which provide back-up power to equipment in the HF Plant with two new diesel powered electric generators (Emission Point Nos. (EPN) 2-04 and 3-04). Because of time constraints, Honeywell elected to permit these emission sources separately in a Part 70 permit (Permit No. 2910-V0 issued on November 17, 2005) rather than submit an application for a permit modification. At the time of permit issuance, the nonattainment status of Ascension Parish was designated as marginal under the 8-hour standard. Although the project did not qualify as a major modification under the Nonattainment New Source Review (NNSR) program, Honeywell elected to comply with NNSR major modification regulations by providing emission offsets at a 1.2 to 1 ratio and by employing Lowest Achievable Emission Rate (LAER) technology (the use of state-of-the-art engine design for diesel engines). Permit No. 2910-V0 was consolidated into the initial Part 70 Operating Permit for the HF Plant (Permit N. 2394-V0) which was issued on June 22, 2006.

This is the Part 70 Operating Permit for the HF Plant.

II. Origin

A permit application and Emission Inventory Questionnaire dated November 17, 2009 were submitted by Honeywell International Inc. requesting a Part 70 operating permit modification. Additional information dated December 9, 2009 and December 29, 2009 was also received.

III. Description

Hydrogen fluoride (HF), or hydrofluoric acid, is produced by reacting fluorspar (calcium fluoride) with sulfuric acid (H_2SO_4) in an anhydrous environment. The reaction occurs in externally-heated horizontal rotary kilns. The produced HF gas is routed through a cooling and purification train for removal of water, H_2SO_4 mist, and other impurities. It is

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then condensed and routed to storage as commercial grade HF. Solid calcium sulfate (CaSO_4), a by-product of this process, is drawn from the furnaces, slurred with pond water, transported to a series of neutralizers, and deposited in a stacking facility.

Sulfur dioxide (SO_2) is formed by the partial reduction of the HF residue at furnace temperatures. Some of the SO_2 is condensed with the HF commercial grade product. The remaining SO_2 is carried with the condenser's overhead vapors to the tail gas scrubbers. SO_2 is removed from the commercial grade HF by distillation to produce high purity grade HF. The SO_2 is recycled to the cooling and purification train.

The tail gas passes through the HF Tail Gas Scrubber System (Emission Point No. (EPN) 89-15), which consists of two (2) wet scrubbers in series. The first scrubber, the acid scrubber, uses H_2SO_4 as scrubbing medium to recover the HF which escapes from the condensers. The recovered HF is rerouted to the furnaces. The second scrubber, the SO_2 scrubber, uses water as scrubbing medium to absorb silicon tetrafluoride and SO_2 .

Products are routed to on-site storage vessels from which they are eventually sent to transfer racks for loading into rail cars and tank trucks. Anhydrous HF is stored in pressure vessels. Aqueous HF is stored in fixed roof tanks that are controlled by scrubbers. The HF Plant has a combination rail/truck loading rack and the HF Additives Plants have a truck loading rack. Commercial grade finished HF from the HF Plant is blended for offsite shipment in the HF Additives Facility. All loading operations are controlled by scrubbers.

The slurry mixture is processed through a neutralizer and the neutralizer effluent flows to the residue stack. In this step, solid mostly CaSO_4 settle out. Liquid leaving the pond system, typically at a pH between 2.0 and 2.5, is reused in the plant as a scrubber medium or slurry water. Excess pond water is treated in a clarifier where the pH is raised between 6 and 9 before discharge. Clarifier underflow is returned to the residue stack.

In this Part 70 Operating Permit modification, Honeywell proposes the following changes to its current Part 70 Operating Permit for the HF Plant:

1. To install a new utility boiler (Emission Point No. (EPN) 1-09) to replace the currently permitted boiler (EPN 1-96).
2. To replace an aqueous HF storage tank (Tank U-502) and reconcile certain tank numbers (i.e., Tank Nos. U-501 and U-502) in the existing permit. In the current permit, Tank U-501 was incorrectly identified as TEMPO ID No. EQT0053 and Tank U-502 as EQT0054. In this permit, Tank U-501 will be identified as EQT0054 and Tank U-502 will be identified as EQT0126.

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3. To reconcile emissions from the HF Additives Unit 1 Fume Scrubber (EPN 1-96A) to reflect proper throughputs for the unit.
4. To remove sources associated with the HF Additives Unit 2 which was not constructed.
5. To install pre-heaters in the acid feed streams of each of the four (4) HF furnaces. The pre-heaters will utilize steam, which will be produced by the new utility boiler (EPN 1-09), as the heating agent.
6. To reconcile emissions from the HF Tail Gas Scrubber System (EPN 89-15) based on most recent data, including the effects of the pre-heater systems associated with the HF furnaces.
7. To add a storage tank (EPN 10-09) to store an acidic arsenic material which was authorized through a Case-by-Case Insignificant Activity notification in July 2009.
8. To remove the requirement to operate the water scrubber in addition to the SO₂ scrubber (which also uses water as the scrubbing medium), both of which are currently parts of the HF Tail Gas Scrubber System (EPN 89-15). A recent design analysis has shown that the use of the water scrubber is not necessary to achieve the level of emissions authorized by the permit for the tail gas scrubbing system since the SO₂ scrubber alone operates at a removal efficiency of greater than 99 percent for both silicon tetrafluoride (SiF₄) and sulfur dioxide (SO₂).

Also, in this permit modification, the following permit revisions were made by the Louisiana Department of Environmental Quality (LDEQ):

1. All citations and references to 40 CFR 63 Subpart DDDDD were removed from the permit for certain emission sources because the Court of Appeals for the District of Columbia circuit vacated this rule on July 30, 2007 and no revised rule has been promulgated.
2. For permit clarity and to remove repetitive regulations on certain emission sources, all common equipment groups in TEMPO were removed and the regulations for the corresponding emission sources were assigned to the individual emission sources.
3. Due to recent TEMPO format changes, the Permitted Total group (GRP0010) was replaced with the Unit or Facility Wide group (UNF0002).

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4. The 40 CFR Part 70 General Conditions and the Louisiana General Conditions were removed from the Air Permit Briefing Sheet (Word Document portion of the air permit) and included by reference via citations LAC 33:III.535 and LAC 33:III.537, respectively, in the Unit or Facility Wide Group (UNF0002).

Non-attainment New Source Review (NNSR)

The Honeywell - Geismar Complex is classified as a major stationary source located in Ascension Parish which is included in the Baton Rouge ozone non-attainment area. This permit addresses the addition of a new utility boiler (EPN 1-09) and a new storage tank (EPN 10-09), as well as other reconciliatory issues. As shown in Table 1 below, the project associated emissions increases for the NNSR pollutants, NO_x and VOC, are below their respective NNSR trigger level of 25 tons per year (TPY). Consequently, the NNSR program does not apply to this permit modification/renewal.

Table 1

Pollutant	Baseline Actual Emissions (24-month period) (TPY)	Post-Project Potential to Emit (TPY)	Change	NNSR Trigger Value (TPY)
NO _x	0	18.40	+18.40 ¹	25
VOC	0	1.18	+ 1.18	25

¹ The 18.40 tpy NO_x increase is both the emissions increase associated with the boiler project and the net emissions increase as defined in LAC 33:III.504.K.. The most recent NO_x increase prior to this permit action was a 5.87 tpy increase that was authorized in Permit No. 2910-V0, issued on November 17, 2005, which is outside of the contemporaneous period. In addition, should that increase have occurred during the contemporaneous period, it would not be creditable since Permit No. 2910-V0 was issued as a major modification under LAC 33:III.504.

Prevention of Significant Deterioration (PSD) Review

As shown in Table 2, the project associated emissions increases for the PSD pollutants, PM₁₀, SO₂, and CO, are less than their respective PSD trigger level. Consequently, the PSD program does not apply to this permit modification/renewal.

Table 2

Pollutant	Baseline Actual Emissions (24-month period) (TPY)	Post-Project Potential to Emit (TPY)	Change	PSD Trigger Value (TPY)
PM ₁₀	0	1.63	+ 1.63	15
NO _x	0	18.40	+18.40	40
SO ₂	0	0.13	+ 0.13	40
CO	0	64.04	+ 64.04	100

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The emissions of CO will increase by more than 50 percent of its significance level. However, since the facility calculated post-project emissions by using the project's *Potential to Emit* (as defined in LAC 33:III.509.B) instead of using the project's *Projected Actual Emissions* (as defined in LAC 33:III.509.B), there is no reasonable possibility that the project will result in a significant emissions increase. Therefore, pre-project and post-project monitoring, recordkeeping, and reporting requirements pursuant to LAC 33:III.509.R.6 are not required.

Estimated emissions in tons per year for the HF Plant are as follows:

Pollutant	Before	After	Change
PM ₁₀	52.78	52.78	-
SO ₂	78.76	34.89	- 43.87
NO _x	94.53	91.48	- 3.05
CO	89.28	135.27	+ 45.99
VOC *	9.73	8.91	- 0.82

* VOC LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs)			
Pollutant	Before	After	Change
1,3-butadiene ¹	0.001	0.001	-
2,2,4-trimethylpentane	< 0.01	< 0.01	-
Acetaldehyde ¹	0.003	0.003	-
Acrolein	< 0.001	< 0.001	-
Benzene	< 0.01	0.01	-
Cumene	< 0.01	< 0.01	-
Ethyl benzene	< 0.01	< 0.01	-
Formaldehyde	0.22	0.22	-
n-Hexane	< 0.001	< 0.001	-
Naphthalene	< 0.001	< 0.001	-
Methanol	0.11	0.11	-
Methyl tertiary butyl ether	0.08	0.08	-

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* VOC LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs)			
Pollutant	Before	After	Change
Polynuclear Aromatic Hydrocarbons	< 0.001	< 0.001	-
Toluene ¹	< 0.01	0.01	-
Xylene ¹	< 0.01	< 0.01	-
Total	0.478	0.478	-

¹ Highly Reactive Volatile Organic Compound (HRVOC)

Other VOC	8.43
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Non-VOC TAPs			
Pollutant	Before	After	Change
Arsenic (and compounds)	0.19	0.19	-
Chlorine	0.42	0.42	-
Hydrofluoric Acid (HF)	6.88	6.20	- 0.68
Mercury (and compounds)	< 0.01	< 0.01	-
Nitric Acid (HNO ₃)	0.12	0.12	-
Sulfur Trioxide (SO ₃)	5.36	5.36	-
Sulfuric Acid (H ₂ SO ₄)	2.57	2.57	-
Total	15.55	14.87	- 0.68

Other Non-VOC			
Pollutant	Before	After	Change
Ozone Depleting Substances (ODS)	8.55	8.55	-
Total Suspended Particulate (TSP)	52.76	54.61	+ 1.85

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IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) and Non-Attainment New Source Review (NNSR) do not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

This permit includes the addition of a new utility boiler (EPN 1-09). This boiler will increase emissions and will result in the applicability of a New Source Performance Standard (NSPS 40 CFR 60 Subpart Dc) promulgated pursuant to Section 111 of the Clean Air Act. As such, pursuant to LAC 33:III.527.A.2.a, this permit is classified as a significant modification and must follow significant modification procedures which require the permit to undergo public comment as well as review by US EPA Region VI.

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in *The Gonzales Weekly Citizen*, Gonzales, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft

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permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Emissions associated with the proposed modification in this permit were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions. The Air Quality Dispersion Modeling results below are included in the current permit (Permit No. 2394-V0), but the date of submittal of the results is unknown.

Dispersion Model(s) Used: ISCST3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
PM ₁₀	24-hr	91.7	(150)
PM ₁₀	Annual	29.5	(50)

VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates - tons			
		PM ₁₀	SO ₂	NO _x	CO
< none >					VOC

IX. Insignificant Activities

ID No.:	Description	Citation
89-84	Tank 84 (stores diesel)	LAC 33:III.501.B.5.A.3.
89-85	Tank 85 (stores used oil)	LAC 33:III.501.B.5.A.3.
89-90	Tank 90 (stores diesel)	LAC 33:III.501.B.5.A.3.
89-91	Tank 91 (stores diesel)	LAC 33:III.501.B.5.A.3.

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ID No.:	Description	Citation
89-93	Tank 93 (stores diesel)	LAC 33:III.501.B.5.A.3.
89-94	Tank 94 (stores diesel)	LAC 33:III.501.B.5.A.3.
89-95	Tank 93 (stores waste oil)	LAC 33:III.501.B.5.A.3.
89-96	Tank 96 (stores diesel)	LAC 33:III.501.B.5.A.3.
25-02a	Tank U-710 (stores tetramethylene sulfone)	LAC 33:III.501.B.5.A.3.
26-02	Sump Pump Fuel Tank (stores diesel)	LAC 33:III.501.B.5.A.3.
27-02	River Water Diesel Pump Tank (stores diesel)	LAC 33:III.501.B.5.A.3.
-	Tank U-803 (stores hydrogen peroxide)	LAC 33:III.501.B.5.A.3.
-	Tank U-805 (stores hydrogen peroxide)	LAC 33:III.501.B.5.A.3.
-	Tank U-806 (stores hydrogen peroxide)	LAC 33:III.501.B.5.A.3.
-	TMS Tank (stores tetramethylene sulfone)	LAC 33:III.501.B.5.A.3.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																	
		5*	9	11	13	15	2103	2107	2111	2113	2121	2122	2131	2153	22	29*	51*	53*	56
UNF0002	HF Plant	1	1	1	1			3		1	3	3		3		1	1	1	1
EQT0004	2-04, Clarifier Diesel Generator Engine		1	1	3											2	2		
EQT0005	3-04, HF Diesel Generator Engine		1	1	3											2	2		
EQT0006	89-10, Sulfuric Acid Storage Tank U-202 (99.2% H ₂ SO ₄)							3								1			
EQT0007	89-15, HF Tail Gas Scrubber System	1				3										1			
EQT0008	89-40, Oleum Storage Tank U-203					3										1			
EQT0009	89-47, Flourspar Silo	1			1											1			
EQT0010	89-48, Flourspar Use Silo No. 1	1			1											1			
EQT0011	89-51, Lime Storage Silo 1	1			1														
EQT0012	89-54, Flourspar Dryer	1		1	1	3									2	1			
EQT0013	89-56, HF Furnace No. 3 Air Heater Seal		1	1	3											2	2		
EQT0014	89-56A, HF Furnace No. 3 Air Heater		1	1	3											2	2		
EQT0015	89-57, HF Furnace No. 4 Air Heater Seal		1	1	3											2	2		
EQT0016	89-57A, HF Furnace No. 4 Air Heater		1	1	3											2	2		
EQT0017	89-58, Flourspar Use Silo No. 2	1			1											1			
EQT0018	89-62, Clarifier Lime Silo	1			1											2	2		
EQT0019	89-63A, HF Residue Screws Sample Port No. 1																		

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		5*	9	11	13	15	2013	2107	2111	2113	2121	2122	2131	2153	22	29*	51*	56
EQT0020	89-63B, HF Residue Screws Sample Port No. 2																	
EQT0021	89-63C, HF Residue Screws Sample Port No. 3																	
EQT0022	89-63D, HF Residue Screws Sample Port No. 4																	
EQT0023	89-65, Aqueous HF Storage Vent Scrubber	1														1		
EQT0024	89-72, Fire Water Pump Engine #1		1	1	3										2	2	2	
EQT0025	89-74, Fire Water Pump Engine #2		1	1	3										2	2	2	
EQT0026	89-83, Unleaded Gasoline Storage Tank				1										3	1	1	
EQT0028	1-96A, HF Additives Unit 1 Fume Scrubber	1														1	1	
EQT0029	1-97, North Cooling Water Tower 1															1	1	
EQT0030	1-02, HF Plant South Cooling Water Tower																1	
EQT0031	2-02, Clarifier Diesel Pump Engine		1	1	3										2	2	2	
EQT0032	3-02A, Furnace Rotator Engine No. 1		1	1	3										2	2	2	
EQT0033	3-02B, Furnace Rotator Engine No. 2		1	1	3										2	2	2	
EQT0034	3-02C, Furnace Rotator Engine No. 3		1	1	3										2	2	2	
EQT0035	3-02D, Furnace Rotator Engine No. 4		1	1	3										2	2	2	
EQT0036	17-02, Atlas Copco Air Compressor		1	1	3										2	2	2	
EQT0037	18-02, Brambles Sullair Air Compressor		1	1	3										2	2	2	

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		5▲	9	11	13	15	2103	2107	2111	2113	2121	2122	2131	2153	22	29*	51*	53*	56	59*
EQT0038	19-02, Ingersol Rand Air Compressor		1	1	3											2				
EQT0039	20-02, Emergency River Water Pump		1	1	3											2				
EQT0040	21-02, Emergency Sump Pump		1	1	3											2				
EQT0041	24-02, HF Laboratory Hoods																			1
EQT0042	1-05, Tank U-802																			1
EQT0043	2-05, Tank U-804																			1
EQT0044	3-05, Sulfuric Acid Tank																			1
EQT0045	4-05, Catalyst Transfer																			
EQT0047	10-05, North Cooling Water Tower 2																			1
EQT0048	11-05, HF Furnace No. 1 Air Heater Seal																			
EQT0049	11-05A, HF Furnace No. 1																			
EQT0050	12-05, HF Furnace No. 2 Air Heater Seal																			
EQT0051	12-05A, HF Furnace No. 2																			
EQT0052	89-71, Clarifier Diesel Generator Engine																			
EQT0054	Tank U-501																			1
EQT0055	Tank U-711																			1
EQT0056	Additive Storage Tank																			1

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		5*	9	11	13	15	2103	2107	2111	2113	2121	2122	2153	22	29*	51*	53*	56	59*
EQT0057	Truck Loading																		
EQT0058	Aqueous HF Loading Rack																		
EQT0059	HF Additives Unit 1 Truck Loading Rack																		
EQT0061	89-37, HF Furnace Air Heater No.1	1	1	3															
EQT0062	89-38, HF Furnace Air Heater No.2	1	1	3															
EQT0063	1-06, Tank U-876																		
EQT0064	2-06, Tank U-877																		
EQT0126	Tank U-502																		
EQT0127	1-09, HF Utility Boiler	1	1	3															
EQT0128	10-09, Tank U-821																		
FUG0001	89-64, HF Plant Fugitive Emissions																		
FUG0002	2-96, HF Additives Unit 1 Fugitives																		
FUG0003	3-97, Cooling Pond Fugitive Emissions																		
FUG0004	4-02, Clam Shell Fugitives																		
FUG0005	5-02, Gantry Fugitives																		
FUG0006	6-02, Belt 1-2 Transfer Fugitives																		
FUG0007	7-02, Belt 2-3 Transfer Fugitives																		

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5▲	9	11	13	15	2103	2107	2111	2113	2121	2122	2131	2153	22	29*	51*	53*	56	59*
FUG0008	8-02, Belt 3-4 Transfer Fugitives				1														1	
FUG0009	9-02, Belt 4-5 Transfer Fugitives					1														1
FUG0010	10-02, Spar Storage Building No. 1 Transfer Fugitives					1														1
FUG0011	11-02, Truck Loading Fugitives						1													1
FUG0012	12-02, Haul Road Fugitives							1												3
FUG0013	13-02, Spar Storage Building No. 2 Transfer Fugitives								1											1
FUG0014	14-02, Hopper Transfer Fugitives									1										1
FUG0015	15-02, Grizzly Feeder Transfer Fugitives										1									1
FUG0016	16-02, Grizzly Feeder Fugitives											1								1
FUG0017	25-02, HF Lime Slaker Fugitives												1							3

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III.Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the “Specific Requirements” report specifically states that the regulation is State Only.

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KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
Blank – The regulations clearly do not apply to this type of emission source.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No:	Description	40 CFR 60				40 CFR 61				40 CFR 63				40 CFR				
		Ka	Kb	Dc	OOO	UUU	III	JJJ	A	M	FF	A	Q	SS	YY	ZZZZ	64	68
UNF0002	HF Plant								1	1	1	1	1	1	1	1	1	1
EQT0004	2-04, Clarifier Diesel Generator Engine								3	3						3		
EQT0005	3-04, HF Diesel Generator Engine								3	3						3		
EQT0006	89-10, Sulfuric Acid Storage Tank U-202 (99.2% H ₂ SO ₄)																	
EQT0007	89-15, HF Tail Gas Scrubber System															1	1	3
EQT0008	89-40, Oleum Storage Tank U-203								3									
EQT0009	89-47, Fluorspar Silo									3								
EQT0010	89-48, Fluorspar Use Silo No. 1									3								
EQT0011	89-51, Lime Storage Silo 1																	
EQT0012	89-54, Fluorspar Dryer									3								
EQT0013	89-56, HF Furnace No. 3 Air Heater Seal																	
EQT0014	89-56A, HF Furnace No. 3 Air Heater																	
EQT0015	89-57, HF Furnace No. 4 Air Heater Seal																	
EQT0016	89-57A, HF Furnace No. 4 Air Heater																	
EQT0017	89-58, Fluorspar Use Silo No. 2										3							
EQT0018	89-62, Clarifier Lime Silo																	
EQT0019	89-63A, HF Residue Screws Sample Port No. 1																	
EQT0020	89-63B, HF Residue Screws Sample Port No. 2																	

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60						40 CFR 61						40 CFR 63						40 CFR							
		Ka	Kb	Dc	OOO	UUU	III	JJJ	A	M	FF	A	Q	SS	YY	ZZZ	ZZZ	64	68	82							
EQT0021	89-63C, HF Residue Screws Sample Port No. 3																										
EQT0022	89-63D, HF Residue Screws Sample Port No. 4																										
EQT0023	89-65, Aqueous HF Storage Vent Scrubber																	1	1	2							
EQT0024	89-72, Fire Water Pump Engine #1																										
EQT0025	89-74, Fire Water Pump Engine #2																										
EQT0026	89-83, Unleaded Gasoline Storage Tank	3																									
EQT0028	1-96A, HF Additives Unit 1 Fume Scrubber																										
EQT0029	1-97, North Cooling Water Tower 1																	3	3								
EQT0030	1-02, HF Plant South Cooling Water Tower																	3	3								
EQT0031	2-02, Clarifier Diesel Pump Engine																	3	3			2					
EQT0032	3-02A, Furnace Rotator Engine No. 1																	3	3			2					
EQT0033	3-02B, Furnace Rotator Engine No. 2																	3	3			2					
EQT0034	3-02C, Furnace Rotator Engine No. 3																	3	3			2					
EQT0035	3-02D, Furnace Rotator Engine No. 4																	3	3			2					
EQT0036	17-02, Atlas Copco Air Compressor																	3	3			2					
EQT0037	18-02, Brambles Sullair Air Compressor																	3	3			2					
EQT0038	19-02 - Ingersol Rand Air Compressor																	3	3			2					
EQT0039	20-02 - Emergency River Water Pump																	3	3			2					

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60						40 CFR 61						40 CFR 63						40 CFR						
		Ka	Kb	Db	Dc	OOO	UUU	III	JJJ	A	M	FF	A	Q	SS	YY	ZZZZ	64	68	82						
EQT0040	21-02 - Emergency Sump Pump									3	3								2							
EQT0041	24-02 - HF Laboratory Hoods																									
EQT0042	1-05 - Tank U-802									3																
EQT0043	2-05 - Tank U-804									3																
EQT0044	3-05 - Sulfuric Acid Tank									3																
EQT0045	4-05 - Catalyst Transfer																									
EQT0047	10-05 - North Cooling Water Tower 2																									3
EQT0048	11-05 - HF Furnace No. 1 Air Heater Seal																									
EQT0049	11-05A - HF Furnace No. 1																									
EQT0050	12-05 - HF Furnace No. 2 Air Heater Seal																									
EQT0051	12-05A - HF Furnace No. 2																									
EQT0052	89-71 Clarifier Diesel Generator Engine																	3	3						2	
EQT0054	Tank U-501									3															1	
EQT0055	Tank U-711									3															1	
EQT0056	Additive Storage Tank									3															1	
EQT0057	Truck Loading																								1	
EQT0058	Aqueous HF Loading Rack																								1	
EQT0059	HF Additives Unit 1 Truck Loading Rack																								1	
EQT0061	89-37 - HF Furnace Air Heater No.1																									

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60			40 CFR 61			40 CFR 63			40 CFR							
		Ka	Kb	Dc	OOO	UUU	III	JJJ	A	M	FF	A	Q	SS	YY	ZZZZ	64	68
EQT0062	89-38 - HF Furnace Air Heater No.2																	
EQT0063	1-06 - Tank U-876																	
EQT0064	2-06 - Tank U-877																	
EQT0126	Tank U-502																	
EQT0127	1-09, HF Utility Boiler																	
EQT0128	10-09, Tank U-821																	
FUG0001	89-64 - HF Plant Fugitive Emissions																	
FUG0002	2-96 - HF Additives Unit 1 Fugitives																	
FUG0003	3-97 - Cooling Pond Fugitive Emissions																	
FUG0004	4-02 - Clam Shell Fugitives																	
FUG0005	5-02 - Gantry Fugitives																	
FUG0006	6-02 - Belt 1-2 Transfer Fugitives																	
FUG0007	7-02 - Belt 2-3 Transfer Fugitives																	
FUG0008	8-02 - Belt 3-4 Transfer Fugitives																	
FUG0009	9-02 - Belt 4-5 Transfer Fugitives																	
FUG0010	10-02 - Spar Storage Building No. 1 Transfer Fugitives																	
FUG0011	11-02 - Truck Loading Fugitives																	
FUG0012	12-02 - Haul Road Fugitives																	

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60												40 CFR 61				40 CFR 63			
		Ka	Kb	Dc	000	UUU	III	JJJ	A	M	FF	A	Q	SS	YY	ZZZZ	64	68	82		
FUG0013	13-02 - Spar Storage Building No. 2 Transfer Fugitives				3																
FUG0014	14-02 - Hopper Transfer Fugitives					3															
FUG0015	15-02 - Grizzly Feeder Transfer Fugitives						3														
FUG0016	16-02 - Grizzly Feeder Fugitives							3													
FUG0017	25-02 - HF Lime Slaker Fugitives																				

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
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 - 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
- Blank – The regulations clearly do not apply to this type of emission source.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.:	Description	Requirement	Notes
UNFO002	HF Plant	LAC 33.III.2107 – Volatile Organic Compounds – Loading	DOES NOT APPLY. The facility does not load volatile organic compounds having a true vapor pressure in excess of 1.5 psia in excess of applicable thresholds. [LAC 33.III.2107.A]
		LAC 33.III.2121 – Fugitive Emission Control	DOES NOT APPLY. Facility does not manufacture as intermediates or final products any chemicals listed in LAC 33.III.Chapter 21, Table 8.
		LAC 33.III.2122 – Fugitive Control for Ozone Nonattainment Areas	DOES NOT APPLY. Facility does not manufacture as intermediates or final products any chemicals listed in LAC 33.III.Chapter 21, Table 8.
		LAC 33.III.2153 – Limiting Volatile Organic Compound Emission from Industrial Wastewater	DOES NOT APPLY. There are no wastewater streams with a VOC concentration greater than 10,000 ppmw, or with a VOC concentration greater than 1000 ppmw and a flow rate greater than 10 L/min. [LAC 33.III.2153.A]

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.:	Description	Requirement	Notes
EQT0006	89-10, Sulfuric Acid Storage Tank U-202	LAC 33:III.2103 – Storage of Volatile Organic Compounds	DOES NOT APPLY. Tanks do not store a volatile organic compound.
EQT0008	89-40, Oleum Storage Tank U-203		
EQT0042	1-05, Tank U-802		
EQT0043	2-05, Tank U-804		
EQT0044	3-05, Sulfuric Acid Tank		
EQT0054	Tank U-501		
EQT0055	Tank U-711		
EQT0056	Additive Storage Tank		
EQT0063	1-06, Tank U-876		
EQT0064	2-06, Tank U-877		
EQT0126	Tank U-502		
EQT0128	10-09, Tank U-821		
		40 CFR 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984)	DOES NOT APPLY. Tanks do not store a volatile organic liquid.
EQT0007	89-15, HF Tail Gas Scrubber System	LAC 33:III Chapter 15 - Emission Standards for Sulfur Dioxide	DOES NOT APPLY. Source emits less than 5 tons per year of sulfur dioxide into the atmosphere. [LAC 33:III.1502.A.3]

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0007	89-15, HF Tail Gas Scrubber System	40 CFR 64 – Compliance Assurance Monitoring (CAM)	DOES NOT APPLY. Submittal of information is not required until renewal of the permit as this is not a significant modification of this emissions unit. [40 CFR 64.5(a)(2), 40 CFR 64.5(a)(3)]
EQT0009 EQT0010	89-47, Fluorspar Silo 89-48, Fluorspar Use Silo No. 1	40 CFR 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR 60.670)	DOES NOT APPLY. Facility is not a Nonmetallic Mineral Processing Plant as spar handling equipment does not include a crushing or grinding operation.
EQT0012	89-54, Fluorspar Dryer	LAC 33:III:Chapter 15 - Emission Standards for Sulfur Dioxide Emissions of Nitrogen Oxides	DOES NOT APPLY. Source emits less than 5 tons per year of sulfur dioxide into the atmosphere. [LAC 33:III:1502.A.3]
		LAC 33:III:Chapter 22 – Control of Emissions of Nitrogen Oxides	EXEMPT. Exempt as a kiln/oven. [LAC 33:III:2201.C.7]
		40 CFR 60 Subpart UUU – Standards of Performance for Calciners and Dryers in Mineral Industries	DOES NOT APPLY. Facility in mineral processing plant by definition (facility handles fluorspar, which is not a listed mineral). [40 CFR 60.730]
EQT0017	89-58, Fluorspar Use Silo No. 2	40 CFR 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants	DOES NOT APPLY. Facility is not a Nonmetallic Mineral Processing Plant as spar handling equipment does not include a crushing or grinding operation. [40 CFR 60.670]

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.:	Description	Requirement	Notes
EQT0023 EQT0028	89-65, Aqueous HF Storage Vent Scrubber 1-96A, HF Additives Unit 1 Fume Scrubber	40 CFR 64 – Compliance Assurance Monitoring (CAM)	EXEMPT. Emissions are subject to emissions limitations or standards proposed by the Administrator after November 15, 1990 pursuant to Section 111 or 112 of the Clean Air Act. [40 CFR 64.3(b)(1)(i)]
EQT0024 EQT0025 EQT0031 EQT0032 EQT0033 EQT0034 EQT0035 EQT0036 EQT0037 EQT0038 EQT0039 EQT0040 EQT0052	89-72, Fire Water Pump Engine # 1 89-74, Fire Water Pump Engine # 2 2-02, Clarifier Diesel Pump Engine 3-02A, Furnace Rotator Engine No. 1 3-02B, Furnace Rotator Engine No. 2 3-02C, Furnace Rotator Engine No. 3 3-02D, Furnace Rotator Engine No. 4 17-02, Atlas Copco Air Compressor 18-02, Brambles Sullair Air Compressor 19-02, Ingersol Rand Air Compressor 20-02, Emergency River Water Pump 21-02, Emergency Sump Pump 89-71, Clarifier Diesel Generator Engine	LAC 33:III.Chapter 15 - Emission Standards for Sulfur Dioxide	DOES NOT APPLY. Engines emit less than 5 tons per year of sulfur dioxide into the atmosphere. [LAC 33:III.1502.A.3]
		LAC 33:III.Chapter 22 – Control of Emissions of Nitrogen Oxides	EXEMPT. Exempt as diesel fired stationary internal combustion engines. [LAC 33:III.2201.C.14]
		LAC 33:III.5109 – Emission Control and Reduction Requirements and Standards State Only	EXEMPT. Emissions from the combustion of Group 1 virgin fossil fuels are exempt from the requirements of this chapter. [LAC 33:III.5105.B.3.a]

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.: <i>(continued)</i>	Description	Requirement	Notes
EQT0024	89-72, Fire Water Pump Engine # 1	40 CFR 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	DOES NOT APPLY. Engines have not been constructed, modified, or reconstructed since July 11, 2005. [40 CFR 60.4200(a)(2)]
EQT0025	89-74, Fire Water Pump Engine # 2		
EQT0031	2-02, Clarifier Diesel Pump Engine		
EQT0032	3-02A, Furnace Rotator Engine No. 1		
EQT0033	3-02B, Furnace Rotator Engine No. 2		
EQT0034	3-02C, Furnace Rotator Engine No. 3		
EQT0035	3-02D, Furnace Rotator Engine No. 4		
EQT0036	17-02, Atlas Copco Air Compressor		
EQT0037	18-02, Brambles Sullair Air Compressor		
EQT0038	19-02, Ingersol Rand Air Compressor		
EQT0039	20-02, Emergency River Water Pump		
EQT0040	21-02, Emergency Sump Pump		
EQT0052	89-71, Clarifier Diesel Generator Engine		
		40 CFR 60 Subpart IIII - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	DOES NOT APPLY. Engines do not meet the definition of a spark ignition internal combustion engine as defined in 40 CFR 60.4248. Engines burn diesel and are compression ignition internal combustion engines. [40 CFR 60.4230(a)]

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.:	Description	Requirement	Notes
(continued)			
EQT0024	89-72, Fire Water Pump Engine # 1	40 CFR 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	EXEMPT. Engines are existing stationary engines reciprocating internal combustion engines (RICEs) and do not have to meet the requirements of this Subpart and of subpart A of this part. No initial notification is necessary. [40 CFR 63.6590(b)(3)]
EQT0025	89-74, Fire Water Pump Engine # 2		
EQT0031	2-02, Clarifier Diesel Pump Engine		
EQT0032	3-02A, Furnace Rotator Engine No. 1		
EQT0033	3-02B, Furnace Rotator Engine No. 2		
EQT0034	3-02C, Furnace Rotator Engine No. 3		
EQT0035	3-02D, Furnace Rotator Engine No. 4		
EQT0036	17-02, Atlas Copco Air Compressor		
EQT0037	18-02, Brambles Sullair Air Compressor		
EQT0038	19-02, Ingersol Rand Air Compressor		
EQT0039	20-02, Emergency River Water Pump		
EQT0040	21-02, Emergency Sump Pump		
EQT0052	89-71, Clarifier Diesel Generator Engine		
EQT004	2-04, Clarifier Diesel Generator Engine	LAC 33:III.Chapter 15 - Emission Standards for Sulfur Dioxide	DOES NOT APPLY. Engines emit less than 5 tons per year of sulfur dioxide into the atmosphere. [LAC 33:III.1502.A.3]
EQT005	3-04, HF Diesel Generator Engine	LAC 33:III.Chapter 22 – Control of Emissions of Nitrogen Oxides	EXEMPT. Exempt as diesel fired stationary internal combustion engines. [LAC 33:III.2201.C.14]
		LAC 33:III.5109 – Emission Control and Reduction Requirements and Standards State Only	EXEMPT. Emissions from the combustion of Group 1 virgin fossil fuels are exempt from the requirements of this chapter. [LAC 33:III.5105.B.3.a]

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.:	Description	Requirement	Notes
(continued) EQT0004 EQT0005	2-04, Clarifier Diesel Generator Engine 3-04, HIF Diesel Generator Engine	40 CFR 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines 40 CFR 60 Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	DOES NOT APPLY. Engines were manufactured prior to April 1, 2006 and are not fire pump engines. [40 CFR 60.4200(a)(2)(i)] DOES NOT APPLY. Engines do not meet the definition of a spark ignition internal combustion engine as defined in 40 CFR 60.4248. Engines burn diesel and are compression ignition internal combustion engines. [40 CFR 60.4230(a)]
		40 CFR 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	EXEMPT. Engines are new emergency stationary RICES and do not have to meet the requirements of this Subpart and of subpart A of this part. However, the initial notification requirements of 40 CFR 63.6645(h) apply. [40 CFR 63.6590(b)(1)(i)]
EQT0026	89-83, Unleaded Gasoline Storage Tank	NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Tank volume is less than 75 m ³ (19,800 gallons). [40 CFR 60.110b(a)]

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.:	Description	Requirement	Notes
(continued) EQT0026	89-83, Unleaded Gasoline Storage Tank	LAC 33:III.2131 – Filling of Gasoline Storage Vessels	DOES NOT APPLY. The rolling 30-day average throughput does not exceed 10,000 gallons, and annual throughput is less than 120,000 gallons [LAC 33:III.2131.D.3]
EQT0029 EQT0030 EQT0047	1-97, North Cooling Water Tower 1 1-02, HF Plant South Cooling Water Tower 10-05, North Cooling Water Tower 2	40 CFR 63 Subpart Q – National Emission Standards for Hazardous Air Pollutants from Industrial Cooling Towers	DOES NOT APPLY. Cooling tower was not operated with chromium-based water treatment chemicals on or after September 8, 1994.
EQT0013 EQT0014 EQT0015 EQT0016 EQT0048 EQT0049 EQT0050 EQT0051 EQT0061 EQT0062	89-56, HF Furnace No. 3 Air Heater Seal 89-56A, HF Furnace No. 3 Air Heater 89-57, HF Furnace No. 4 Air Heater Seal 89-57A, HF Furnace No. 4 Air Heater 11-05, HF Furnace No. 1 Air Heater Seal 11-05A, HF Furnace No. 1 12-05, HF Furnace No. 2 Air Heater Seal 12-05A, HF Furnace No. 2 89-37, HF Furnace Air Heater No. 1 89-38, HF Furnace Air Heater No. 2	LAC 33:III.Chapter 15 - Emission Standards for Sulfur Dioxide	DOES NOT APPLY. Sources emit less than 5 tons per year of sulfur dioxide into the atmosphere. [LAC 33:III.1502.A.3]

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.:	Description	Requirement	Notes
(continued)		LAC 33:III.Chapter 22 - Control of Emissions of Nitrogen Oxides	Exempt as process heaters/furnaces with a maximum rated capacity of less than 40 MM Btu/Ar. [LAC 33:III.2201.C.1]
EQT0013	89-56, HF Furnace No. 3 Air Heater Seal	LAC 33:III.Chapter 22 - Control of Emissions of Nitrogen Oxides	Exempt as process heaters/furnaces with a maximum rated capacity of less than 40 MM Btu/Ar. [LAC 33:III.2201.C.1]
EQT0014	89-56A, HF Furnace No. 3 Air Heater		
EQT0015	89-57, HF Furnace No. 4 Air Heater Seal		
EQT0016	89-57A, HF Furnace No. 4 Air Heater		
EQT0048	11-05, HF Furnace No. 1 Air Heater Seal		
EQT0049	11-05A, HF Furnace No. 1		
EQT0050	12-05, HF Furnace No. 2 Air Heater Seal		
EQT0051	12-05A, HF Furnace No. 2		
EQT0061	89-37, HF Furnace Air Heater No. 1		
EQT0062	89-38, HF Furnace Air Heater No. 2		
EQT0127	1-09, HF Utility Boiler	LAC 33:III.Chapter 51, Subchapter A - Comprehensive Toxic Air Pollutant Emission Control Program	EXEMPT. Sources combust natural gas, a Group 1 virgin fossil fuel. Emissions from the combustion of Group 1 virgin fossil fuels are exempt from the requirements of Subchapter A. [LAC 33:III.S105.B.3.a]
		LAC 33:III.Chapter 15 - Emission Standards for Sulfur Dioxide	DOES NOT APPLY. Source emits less than 5 tons per year of sulfur dioxide into the atmosphere. [LAC 33:III.1502.A.3]
		LAC 33:III.Chapter 51, Subchapter A - Comprehensive Toxic Air Pollutant Emission Control Program	EXEMPT. Source combusts natural gas, a Group 1 virgin fossil fuel. Emissions from the combustion of Group 1 virgin fossil fuels are exempt from the requirements of Subchapter A. [LAC 33:III.S105.B.3.a]

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
(continued) EQT0127	1-09, HF Utility Boiler	40 CFR 60 Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units 40 CFR 64 – Compliance Assurance Monitoring (CAM)	DOES NOT APPLY. The heat input capacity of this boiler is less than 100 MMBTU/hr. [40 CFR 60.40b(a)] DOES NOT APPLY. The boiler does not use a control device to achieve compliance with an emission limitation or standard. [40 CFR 64.2(a)(2)]
FUG0001	89-64, HF Plant Fugitive Emissions	LAC 33:III.1503.C - Emission Standards for Sulfur Dioxide – Emission Limitations and Compliance	EXEMPT. Source emits less than 250 tons of sulfur dioxide per year. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions from the emissions source. [LAC 33:III.1503.C, LAC 33:III.1513.C]
		LAC 33:III.2122 – Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes	DOES NOT APPLY. Facility is not a petroleum refinery, natural gas processing plant, SOCMII facility, MTBE manufacturing facility, or polymer manufacturing facility.
FUG0002	2-96, HF Additives Unit 1 Fugitives	LAC 33:III.2122 – Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes	DOES NOT APPLY. Facility is not a petroleum refinery, natural gas processing plant, SOCMII facility, MTBE manufacturing facility, or polymer manufacturing facility.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Hydrofluoric Acid Plant
 Agency Interest No.: 2082
Honeywell International Inc. – Geismar Complex
Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
FUG0004	4-02, Clam Shell Fugitives	LAC 33:III.2122 – Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes	DOES NOT APPLY. Facility is not a petroleum refinery, natural gas processing plant, SOCML facility, MTBE manufacturing facility, or polymer manufacturing facility.
FUG0005	5-02, Gantry Fugitives		
FUG0006	6-02, Belt 1-2 Transfer Fugitives		
FUG0007	7-02, Belt 2-3 Transfer Fugitives		
FUG0008	8-02, Belt 3-4 Transfer Fugitives		
FUG0009	9-02, Belt 4-5 Transfer Fugitives		
FUG0010	10-02, Spar Storage Building No. 1 Transfer Fugitives		
FUG0011	11-02, Truck Loading Fugitives		
FUG0013	13-02, Spar Storage Building No. 2 Transfer Fugitives		
FUG0014	14-02, Hopper Transfer Fugitives		
FUG0015	15-02, Grizzly Feeder Transfer Fugitives		
FUG0016	16-02, Grizzly Feeder Fugitives		
		NSPS Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR 60.670)	DOES NOT APPLY. Facility is not a Nonmetallic Mineral Processing Plant as spar handling equipment does not include a crushing or grinding operation.
FUG0012	12-02, Haul Road Fugitives	LAC 33:III.2122 – Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes	DOES NOT APPLY. Facility is not a petroleum refinery, natural gas processing plant, SOCML facility, MTBE manufacturing facility, or polymer manufacturing facility.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Hydrofluoric Acid Plant
Agency Interest No.: 2082
Honeywell International Inc. – Geismar Complex
Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.	Description	Requirement	Notes
(continued) FUG0012	12-02, Haul Road Fugitives	LAC 33:III Chapter 51, Subchapter A – Comprehensive Toxic Air Pollutant Emission Control Program	DOES NOT APPLY. Source does not emit TAPS.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

INVENTORIES

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20090008
Permit Number: 2394-V1
Air - Title V Regular Permit Major Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
HF Plant						
EQT 0004	2-04 - Clarifier Diesel Generator Engine		750 horsepower	750 horsepower		500 hr/yr
EQT 0005	3-04 - HF Diesel Generator Engine		1135 horsepower	1135 horsepower		500 hr/yr
EQT 0006	89-10 - Sulfuric Acid Storage Tank U-202 (99.2% H2SO4)	263191 gallons				8760 hr/yr
EQT 0007	89-15 - HF Tail Gas Scrubber System				40 gallons/min	8760 hr/yr
EQT 0008	89-40 - Oleum (104.2% H2SO4) Storage Tank U-203	132340 gallons				8760 hr/yr
EQT 0009	89-47 - Fluorspar Silo				32050 lb/hr	8760 hr/yr
EQT 0010	89-48 - Fluorspar Use Silo No. 1				39680 lb/hr	8760 hr/yr
EQT 0011	89-51 - Lime Storage Silo 1				23000 lb/hr	933 hr/yr
EQT 0012	89-54 - Fluorspar Dryer		25 MM BTU/hr	25 MM BTU/hr		8760 hr/yr
EQT 0013	89-56 - HF Furnace No. 3 Air Heater Seal		24 MM BTU/hr	24 MM BTU/hr		8760 hr/yr
EQT 0014	89-56A - HF Furnace No. 3 Air Heater		24 MM BTU/hr	24 MM BTU/hr		8760 hr/yr
EQT 0015	89-57 - HF Furnace No. 4 Air Heater Seal		24 MM BTU/hr	24 MM BTU/hr		8760 hr/yr
EQT 0016	89-57A - HF Furnace No. 4 Air Heater		24 MM BTU/hr	24 MM BTU/hr		8760 hr/yr
EQT 0017	89-58 - Fluorspar Use Silo No. 2				46000 lb/hr	8760 hr/yr
EQT 0018	89-62 - Clarifier Lime Silo				18400 lb/hr	408 hr/yr
EQT 0019	89-63A - HF Residue Screws Sample Port No. 1					365 hr/yr
EQT 0020	89-63B - HF Residue Screws Sample Port No. 2					365 hr/yr
EQT 0021	89-63C - HF Residue Screws Sample Port No. 3					365 hr/yr
EQT 0022	89-63D - HF Residue Screws Sample Port No. 4					365 hr/yr
EQT 0023	89-65 - Aqueous HF Storage Vent Scrubber				5.42 MM gallons/yr	8760 hr/yr
EQT 0024	89-72 - Fire Water Pump Engine #1				150 horsepower	500 hr/yr
EQT 0025	89-74 - Fire Water Pump Engine #2				290 horsepower	500 hr/yr
EQT 0026	89-83 - Unleaded Gasoline Storage Tank	4006 gallons				8760 hr/yr
EQT 0028	1-96A - HF Additives Unit 1 Fume Scrubber				6 gallons/min	8760 hr/yr
EQT 0029	1-97 - North Cooling Water Tower 1				10500 gallons/min	8760 hr/yr
EQT 0030	1-02 - HF Plant South Cooling Water Tower				12000 gallons/min	8760 hr/yr
EQT 0031	2-02 - Clarifier Diesel Pump Engine				715 horsepower	500 hr/yr
EQT 0032	3-02A - Furnace Rotator Engine No. 1				101 horsepower	500 hr/yr
EQT 0033	3-02B - Furnace Rotator Engine No. 2				101 horsepower	500 hr/yr
EQT 0034	3-02C - Furnace Rotator Engine No. 3				101 horsepower	500 hr/yr
EQT 0035	3-02D - Furnace Rotator Engine No. 4				101 horsepower	500 hr/yr
EQT 0036	17-02 - Atlas Copco Air Compressor				250 horsepower	500 hr/yr
EQT 0037	18-02 - Brambles Sulair Air Compressor				220 horsepower	500 hr/yr
EQT 0038	19-02 - Ingersoll Rand Air Compressor				85 horsepower	500 hr/yr
EQT 0039	20-02 - Emergency River Water Pump				745 horsepower	500 hr/yr
EQT 0040	21-02 - Emergency Sump Pump				225 horsepower	500 hr/yr
EQT 0041	24-02 - HF Laboratory Hoods					8760 hr/yr
EQT 0042	1-05 - Tank U-802	59 gallons				8760 hr/yr
EQT 0043	2-05 - Tank U-804	212 gallons				8760 hr/yr

INVENTORIES
AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20090008
Permit Number: 2394-V1
Air - Title V Regular Permit Major Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
HF Plant						
EQT 0044	3-05 - Sulfuric Acid Tank	263191 gallons		15768 lb/yr		8760 hr/yr
EQT 0045	4-05 - Catalyst Transfer			7500 gallons/min		8760 hr/yr
EQT 0047	10-05 - North Cooling Water Tower 2		24 MM BTU/hr	24 MM BTU/hr		8760 hr/yr
EQT 0048	11-05 - HF Furnace No. 1 Air Heater Seal		24 MM BTU/hr	24 MM BTU/hr		8760 hr/yr
EQT 0049	11-05A - HF Furnace No. 1		24 MM BTU/hr	24 MM BTU/hr		8760 hr/yr
EQT 0050	12-05 - HF Furnace No. 2 Air Heater Seal		24 MM BTU/hr	24 MM BTU/hr		8760 hr/yr
EQT 0051	12-05A - HF Furnace No. 2		24 MM BTU/hr	24 MM BTU/hr		8760 hr/yr
EQT 0052	89-71 - Clarifier Diesel Generator Engine		300 horsepower	300 horsepower		500 hr/yr
EQT 0054	Tank U-501 - Tank U-501	29213 gallons			2061482 gallons/yr	8760 hr/yr
EQT 0055	Tank U-711 - Tank U-711					8760 hr/yr
EQT 0056	Additive Storage - Additive Storage Tank					8760 hr/yr
EQT 0057	Truck Loading - Truck Loading					8760 hr/yr
EQT 0058	Loading Rack - Aqueous HF Loading Rack					8760 hr/yr
EQT 0059	Unit 1 Loading Rack - Additives Unit 1 Truck Loading Rack					8760 hr/yr
EQT 0061	89-37 - HF Furnace Air Heater No. 1			24 MM BTU/hr		8760 hr/yr
EQT 0062	89-38 - HF Furnace Air Heater No. 2			24 MM BTU/hr		8760 hr/yr
EQT 0063	1-06 - Tank U-876	8750 gallons				8760 hr/yr
EQT 0064	2-06 - Tank U-877	8750 gallons				8760 hr/yr
EQT 0126	Tank U-502 - Tank U-502	29213 gallons			2061482 gallons/yr	8760 hr/yr
EQT 0127	1-09 - HF Utility Boiler		50 MM BTU/hr	50 MM BTU/hr		8760 hr/yr
EQT 0128	10-09 - Tank U-821	6596 gallons	176330 gallons/yr	176330 gallons/yr		8760 hr/yr
FUG 0001	89-64 - HF Plant Fugitive Emissions					8760 hr/yr
FUG 0002	12-96 - HF Additives Unit 1 Fugitives					8760 hr/yr
FUG 0003	3-97 - Cooling Pond Fugitive Emissions					8760 hr/yr
FUG 0004	4-02 - Clam Shell Fugitives			416500 tons/yr		833 hr/yr
FUG 0005	5-02 - Gantry Fugitives			416500 tons/yr		833 hr/yr
FUG 0006	6-02 - Belt 1-2 Transfer Fugitives			416500 tons/yr		833 hr/yr
FUG 0007	7-02 - Belt 2-3 Transfer Fugitives			416500 tons/yr		833 hr/yr
FUG 0008	8-02 - Belt 3-4 Transfer Fugitives			416500 tons/yr		833 hr/yr
FUG 0009	9-02 - Belt 4-5 Transfer Fugitives			416500 tons/yr		833 hr/yr
FUG 0010	10-02 - Spar Storage Building No. 1 Transfer Fugitives			416500 tons/yr		714 hr/yr
FUG 0011	11-02 - Truck Loading Fugitives			416500 tons/yr		8760 hr/yr
FUG 0012	12-02 - Haul Road Fugitives			416500 tons/yr		8760 hr/yr
FUG 0013	13-02 - Spar Storage Building No. 2 Transfer Fugitives			416500 tons/yr		8760 hr/yr
FUG 0014	14-02 - Hopper Transfer Fugitives			416500 tons/yr		8760 hr/yr
FUG 0015	15-02 - Grizzly Feeder Transfer Fugitives			416500 tons/yr		8760 hr/yr
FUG 0016	16-02 - Grizzly Feeder Fugitives			416500 tons/yr		8760 hr/yr
FUG 0017	25-02 - HF Lime Slaker Fugitives			14000 tons/yr		8760 hr/yr

INVENTORIES

AI ID: 2082 - Honeywell International Inc - Geismar Complex
 Activity Number: PER20090008
 Permit Number: 2394-V1
 Air - Title V Regular Permit Major Mod

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
HF Plant							
EQT 0004	2-04 - Clarifier Diesel Generator Engine	120	2540	.67		20	815
EQT 0005	3-04 - HF Diesel Generator Engine	262.2	5546	.67		12	850
EQT 0006	89-10 - Sulfuric Acid Storage Tank U-202 (99.2% H2SO4)			.5		28	120
EQT 0007	89-15 - HF Tail Gas Scrubber System	23.8	1120	1		50	100
EQT 0008	89-40 - Olbaum (104.2% H2SO4) Storage Tank U-203			.5		21.75	120
EQT 0009	89-47 - Fluorspar Silo	411.5	2800	.38		64	
EQT 0010	89-48 - Fluorspar Use Silo No. 1	411.5	2800	.38		64	
EQT 0011	89-51 - Lime Storage Silo 1	30.6	900	.79		76	
EQT 0012	89-54 - Fluorspar Dryer	218.4	49811	2.2		100	200
EQT 0013	89-56 - HF Furnace No. 3 Air Heater Seal	23.72	3622	1.8		20	1000
EQT 0014	89-56A - HF Furnace No. 3 Air Heater	16.32	3622	2.17		38	525
EQT 0015	89-57 - HF Furnace No. 4 Air Heater Seal	23.72	3622	1.8		20	1000
EQT 0016	89-57A - HF Furnace No. 4 Air Heater	16.32	3622	2.17		38	525
EQT 0017	89-58 - Fluorspar Use Silo No. 2	67.2	2800	.94		100	
EQT 0018	89-62 - Clarifier Lime Silo	27.7	900	.83		110	
EQT 0019	89-63A - HF Residue Screws Sample Port No. 1			15		500	
EQT 0020	89-63B - HF Residue Screws Sample Port No. 2			15		500	
EQT 0021	89-63C - HF Residue Screws Sample Port No. 3			15		500	
EQT 0022	89-63D - HF Residue Screws Sample Port No. 4			15		500	
EQT 0023	89-65 - Aqueous HF Storage Vent Scrubber			.5		55	75
EQT 0024	89-72 - Fire Water Pump Engine #1			.67		12	
EQT 0025	89-74 - Fire Water Pump Engine #2			.5		12	
EQT 0026	89-83 - Unleaded Gasoline Storage Tank			.15		11	
EQT 0028	1-96A - HF Additives Unit 1 Fume Scrubber	36	50	.17		40	130
EQT 0029	1-97 - North Cooling Water Tower 1	30	277088	14		32	97
EQT 0036	17-02 - Atlas Copco Air Compressor			.5		8	
EQT 0037	18-02 - Brambles Sullair Air Compressor			.25		8	
EQT 0038	19-02 - Ingersoll Rand Air Compressor			.5		40	
EQT 0039	20-02 - Emergency River Water Pump			.25		32	97
EQT 0047	10-05 - North Cooling Water Tower 2	30	277088	14		20	1000
EQT 0048	11-05 - HF Furnace No. 1 Air Heater Seal	23.72	3622	1.8		38	525
EQT 0049	11-05A - HF Furnace No. 1	16.32	3622	2.17			

INVENTORIES

AI ID: 2082 - Honeywell International Inc - Geismar Complex
 Activity Number: PER20090008
 Permit Number: 2394-V1
 Air - Title V Regular Permit Major Mod

Stack Information:		Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
HF Plant								
EQT 0050	12-05 - HF Furnace No. 2 Air Heater Seal		23.72	3622	1.8		20	1000
EQT 0051	12-05A - HF Furnace No. 2		16.32	3622	2.17		38	525
EQT 0052	89-1 - Clarifier Diesel Generator Engine				.67			20
EQT 0061	89-37 - HF Furnace Air Heater No. 1		106.9	8510	1.3		20	1000
EQT 0062	89-38 - HF Furnace Air Heater No. 2		106.9	8510	1.3		20	1000
EQT 0127	1-09 - HF Utility Boiler		34	33660		16.5	25	560
EQT 0128	10-09 - Tank U-821				.25		10	70
FUG 0001	89-64 - HF Plant Fugitive Emissions							70

Relationships:		Description	Relationship	ID	Description
EQT 0007	89-15 - HF Tail Gas Scrubber System	Controls emissions from	EQT 0057	Truck Loading - Truck Loading	
EQT 0007	89-15 - HF Tail Gas Scrubber System	Controls emissions from	EQT 0063	1-06 - Tank U-876	
EQT 0007	89-15 - HF Tail Gas Scrubber System	Controls emissions from	EQT 0064	2-06 - Tank U-877	
EQT 0023	89-65 - Aqueous HF Storage Vent Scrubber	Controls emissions from	EQT 0054	Tank U-501 - Tank U-501	
EQT 0023	89-65 - Aqueous HF Storage Vent Scrubber	Controls emissions from	EQT 0126	Tank U-502 - Tank Li-502	
EQT 0023	89-65 - Aqueous HF Storage Vent Scrubber	Controls emissions from	EQT 0058	Loading Rack - Aqueous HF Loading Rack	
EQT 0028	1-96A - HF Additives Unit 1 Fume Scrubber	Controls emissions from	EQT 0055	Tank U-711 - Tank U-711	
EQT 0028	1-96A - HF Additives Unit 1 Fume Scrubber	Controls emissions from	EQT 0059	Unit 1 Loading Rack - Additives Unit 1 Truck Loading Rack	

Subject Item Groups:		Group Type	Group Description
UNF 0002	Unit or Facility Wide		Geismar Complex - HF Plant

Group Membership:

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:		Air Contaminant Source	Units Of Measure
Fee Number	0510 Industrial Inorganic Acids N.E.C. (Rated Capacity)	Multiplier	MM lbs/yr
0510	350		
SIC Codes:		AI 2082	
2819 Industrial inorganic chemicals, nec			

INVENTORIES

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

SIC Codes:

2819	Industrial inorganic chemicals, nec	UNF 002
2869	Industrial organic chemicals, nec	AI 2082

EMISSION KAIES FUKUOKA POLLUTION

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
HF Plant															
EQT 0004 2-04	4.30	4.30	1.08	7.83	7.83	1.96	0.25	0.25	0.06	1.54	1.54	0.38	0.09	0.09	0.02
EQT 0005 3-04	19.30	21.27	4.83	15.67	17.27	3.92	0.91	1.00	0.23	4.17	4.59	1.04	2.07	2.28	0.52
EQT 0007 89-15										0.34	0.40	1.51			
EQT 0009 89-47							0.48	0.48	2.10						
EQT 0010 89-48							0.48	0.48	2.10						
EQT 0011 89-51							0.15	0.15	0.07						
EQT 0012 89-54	2.06	2.06	9.02	3.02	3.23	13.23	4.47	4.47	19.59	0.01	0.01	0.06	0.13	0.13	0.59
EQT 0013 89-56	0.99	0.99	4.33	0.62	0.62	2.69	0.09	0.09	0.39	<0.01	<0.01	0.03	0.06	0.06	0.28
EQT 0014 89-56A	0.99	0.99	4.33	0.62	0.62	2.69	0.09	0.09	0.39	<0.01	<0.01	0.03	0.06	0.06	0.28
EQT 0015 89-57	0.99	0.99	4.33	0.55	0.55	2.39	0.09	0.09	0.39	<0.01	<0.01	0.03	0.06	0.06	0.28
EQT 0016 89-57A	0.99	0.99	4.33	0.55	0.55	2.39	0.09	0.09	0.39	<0.01	<0.01	0.03	0.06	0.06	0.28
EQT 0017 89-58							0.48	0.48	2.10						
EQT 0018 89-62							0.15	0.15	0.03						
EQT 0024 89-72	1.00	1.00	0.25	4.65	4.65	1.16	0.33	0.33	0.08	0.31	0.31	0.08	0.31	0.31	0.08
EQT 0025 89-74	1.94	1.94	0.48	8.99	8.99	2.25	0.64	0.64	0.16	0.59	0.59	0.15	0.61	0.61	0.15
EQT 0026 89-83													0.28	32.96	1.23
EQT 0028 1-96A													<0.01	<0.01	<0.01
EQT 0029 1-97							1.56	1.56	6.84						
EQT 0030 1-92							1.20	1.20	5.26						
EQT 0031 2-02	2.03	2.03	0.51	8.40	8.40	2.10	0.37	0.37	0.09	2.89	2.89	0.72	0.11	0.11	0.03
EQT 0032 3-02A	0.29	0.29	0.07	1.45	1.45	0.36	0.02	0.02	0.01	0.04	0.04	0.01	0.06	0.06	0.01
EQT 0033 3-02B	0.29	0.29	0.07	1.45	1.45	0.36	0.02	0.02	0.01	0.04	0.04	0.01	0.06	0.06	0.01
EQT 0034 3-02C	0.29	0.29	0.07	1.45	1.45	0.36	0.02	0.02	0.01	0.04	0.04	0.01	0.06	0.06	0.01

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
HF Plant															
EQT 0035 3-020	0.29	0.29	0.07	1.45	1.45	0.36	0.02	0.02	0.01	0.04	0.04	0.01	0.06	0.06	0.01
EQT 0036 17-02	1.67	1.67	0.42	7.75	7.75	1.94	0.55	0.55	0.14	0.51	0.51	0.13	0.52	0.52	0.13
EQT 0037 18-02	1.47	1.47	0.37	6.82	6.82	1.71	0.48	0.48	0.12	0.45	0.45	0.11	0.46	0.46	0.11
EQT 0038 19-02	0.57	0.57	0.14	2.64	2.64	0.66	0.19	0.19	0.05	0.17	0.17	0.04	0.18	0.18	0.04
EQT 0039 20-02	4.10	4.10	1.02	17.88	17.88	4.47	0.52	0.52	0.13	3.01	3.01	0.75	0.48	0.48	0.12
EQT 0040 21-02	1.50	1.50	0.38	6.98	6.98	1.74	0.50	0.50	0.12	0.46	0.46	0.12	0.47	0.47	0.12
EQT 0041 24-02													0.03	0.03	0.03
EQT 0045 4-05							<0.01	1.65	<0.01						
EQT 0047 10-05							1.12	1.12	4.89						
EQT 0048 11-05	0.99	0.99	4.33	0.62	0.62	2.69	0.09	0.09	0.39	<0.01	<0.01	0.03	0.06	0.06	0.28
EQT 0049 11-05A	0.99	0.99	4.33	0.62	0.62	2.69	0.09	0.09	0.39	<0.01	<0.01	0.03	0.06	0.06	0.28
EQT 0050 12-05	0.99	0.99	4.33	0.62	0.62	2.69	0.09	0.09	0.39	<0.01	<0.01	0.03	0.06	0.06	0.28
EQT 0051 12-05A	0.99	0.99	4.33	0.62	0.62	2.69	0.09	0.09	0.39	<0.01	<0.01	0.03	0.06	0.06	0.28
EQT 0052 89-71	2.00	2.00	0.50	9.30	9.30	2.33	0.66	0.66	0.17	0.62	0.62	0.15	0.63	0.63	0.16
EQT 0061 89-37	1.98	1.98	8.66	1.76	1.76	7.71	0.18	0.18	0.78	0.01	0.01	0.06	0.13	0.13	0.57
EQT 0062 89-38	1.98	1.98	8.66	1.26	1.26	5.52	0.18	0.18	0.78	0.01	0.01	0.06	0.13	0.13	0.57
EQT 0127 1-99	14.62	14.62	64.04	4.20	4.20	18.40	0.37	0.37	1.63	0.03	0.03	0.13	0.27	0.27	1.18
FUG 0001 89-64										6.65	6.65	29.12			
FUG 0002 2-96													0.20	0.20	0.86
FUG 0004 4-02										0.02	0.02	0.01			
FUG 0005 5-02										0.02	0.02	0.01			
FUG 0006 6-02										0.02	0.02	0.01			
FUG 0007 7-02										0.02	0.02	0.01			

EMISSION KALES PUKUKIKA POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
HF Plant															
FUG 0008 8-02								0.02	0.02	0.01					
FUG 0009 9-02								0.02	0.02	0.01					
FUG 0010 10-02								<0.01	0.01	<0.01					
FUG 0011 11-02								<0.01	<0.01	<0.01					
FUG 0012 12-02								0.57	0.86	1.25					
FUG 0013 13-02								<0.01	<0.01	<0.01					
FUG 0014 14-02								<0.01	<0.01	<0.01					
FUG 0015 15-02								<0.01	<0.01	<0.01					
FUG 0016 16-02								<0.01	<0.01	<0.01					
FUG 0017 25-02								0.18	0.20	0.77					

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0004 2-04	1,3-Butadiene	0.01	0.01	0.001
	Acetaldehyde	<0.01	<0.01	<0.01
	Acrolein	<0.001	0.001	<0.001
	Benzene	<0.01	<0.01	<0.01
	Ethyl benzene	<0.01	<0.01	<0.01
	Formaldehyde	<0.01	<0.01	<0.01
	Naphthalene	<0.001	<0.001	<0.001
	Toluene	<0.01	<0.01	<0.01
	Xylene (mixed isomers)	<0.01	<0.01	<0.01
	n-Hexane	<0.01	<0.01	<0.01
EQT 0005 3-04	1,3-Butadiene	<0.001	<0.001	<0.001
	Benzene	<0.01	<0.01	<0.01
	Ethyl benzene	<0.01	<0.01	<0.01
	Formaldehyde	<0.01	<0.01	<0.01
	Naphthalene	<0.001	<0.001	<0.001
	Toluene	<0.01	<0.01	<0.01
	Xylene (mixed isomers)	<0.01	<0.01	<0.01
EQT 0006 89-10	Sulfuric acid	<0.01	0.01	0.03
EQT 0007 89-15	Arsenic (and compounds)	<0.001	<0.001	<0.001
	Hydrofluoric acid	0.04	0.04	0.17
	Sulfuric acid	<0.001	<0.001	<0.001
EQT 0008 89-40	Sulfur Trioxide	<0.01	0.01	0.03
	Sulfuric acid	<0.01	0.01	0.01
EQT 0009 89-47	Arsenic (and compounds)	<0.001	<0.001	<0.001
EQT 0010 89-48	Arsenic (and compounds)	<0.001	<0.001	<0.001
EQT 0012 89-54	Arsenic (and compounds)	0.002	0.002	0.01
	Benzene	<0.01	<0.01	<0.01
	Mercury (and compounds)	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
EQT 0013 89-58	Benzene	<0.01	<0.01	<0.01
	Mercury (and compounds)	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
EQT 0014 89-58A	Benzene	<0.01	<0.01	<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0014 89-58A	Mercury (and compounds)	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
EQT 0015 89-57	Benzene	<0.01	<0.01	<0.01
	Mercury (and compounds)	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
EQT 0016 89-57A	Benzene	<0.01	<0.01	<0.01
	Mercury (and compounds)	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
EQT 0017 89-58	Arsenic (and compounds)	<0.001	<0.001	<0.001
EQT 0019 89-63A	Sulfur Trioxide	7.20	7.20	1.31
EQT 0020 89-63B	Sulfur Trioxide	7.20	7.20	1.31
EQT 0021 89-63C	Sulfur Trioxide	7.20	7.20	1.31
EQT 0022 89-63D	Sulfur Trioxide	7.20	7.20	1.31
EQT 0023 89-65	Hydrofluoric acid	0.02	0.05	0.09
EQT 0024 89-72	Formaldehyde	0.07	0.07	0.02
EQT 0025 89-74	Formaldehyde	0.13	0.13	0.03
EQT 0026 89-83	2,2,4-Trimethylpentane	<0.01	0.04	<0.01
	Benzene	<0.01	0.12	<0.01
	Cumene	<0.01	<0.01	<0.01
	Ethyl benzene	<0.01	<0.01	<0.01
	Methyl Tertiary Butyl Ether	0.02	2.17	0.08
	Toluene	<0.01	0.14	<0.01
	Xylene (mixed isomers)	<0.01	0.04	<0.01
	n-Hexane	<0.01	0.11	<0.01
EQT 0028 1-96A	Hydrofluoric acid	0.03	0.14	0.12
EQT 0029 1-97	Arsenic (and compounds)	<0.001	0.001	<0.001
	Chlorine	0.05	0.05	0.21
	Arsenic (and compounds)	<0.001	0.001	<0.001
EQT 0030 1-02	Chlorine	<0.01	<0.01	<0.01
	Formaldehyde	<0.01	<0.01	<0.01
EQT 0031 2-02	Formaldehyde	0.05	0.05	0.01
EQT 0032 3-02A	Formaldehyde	0.05	0.05	0.01
EQT 0033 3-02B	Formaldehyde	0.05	0.05	0.01
EQT 0034 3-02C	Formaldehyde	0.05	0.05	0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0035 3-02D	Formaldehyde	0.05	0.05	0.01
EQT 0036 17-02	Formaldehyde	0.12	0.12	0.03
EQT 0037 18-02	Formaldehyde	0.10	0.10	0.03
EQT 0038 19-02	Formaldehyde	0.04	0.04	0.01
EQT 0039 20-02	Formaldehyde	<0.01	<0.01	<0.01
EQT 0040 21-02	Formaldehyde	0.10	0.10	0.03
EQT 0041 24-02	Methanol	0.03	0.03	0.11
EQT 0042 1-05	Nitric acid	<0.01	<0.01	<0.01
EQT 0043 2-05	Nitric acid	<0.01	<0.01	<0.01
EQT 0044 3-05	Sulfuric acid	<0.01	<0.01	0.04
EQT 0045 4-05	Total suspended particulate	<0.01	1.65	<0.01
EQT 0047 10-05	Arsenic (and compounds)	<0.001	<0.001	<0.001
	Chlorine	0.05	0.05	0.21
EQT 0048 11-05	Benzene	<0.01	<0.01	<0.01
	Mercury (and compounds)	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
EQT 0049 11-05A	Benzene	<0.01	<0.01	<0.01
	Mercury (and compounds)	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
EQT 0050 12-05	Benzene	<0.01	<0.01	<0.01
	Mercury (and compounds)	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
EQT 0051 12-05A	Benzene	<0.01	<0.01	<0.01
	Mercury (and compounds)	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
EQT 0052 89-71	Formaldehyde	0.14	0.14	0.03
EQT 0061 89-37	Benzene	<0.01	<0.01	<0.01
	Mercury (and compounds)	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
EQT 0062 89-38	Benzene	<0.01	<0.01	<0.01
	Mercury (and compounds)	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
EQT 0127 1-09	Benzene	<0.01	<0.01	<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0127 1-09	Mercury (and compounds)	<0.001	<0.001	<0.001
	Toluene	<0.01	<0.01	<0.01
EQT 0128 10-09	Arsenic (and compounds)	<0.001		<0.001
	Sulfuric acid	<0.001		<0.001
FUG 0001 89-64	Arsenic (and compounds)	0.028		0.121
	Hydrofluoric acid	1.27		5.563
	Nitric acid	0.027		0.116
	Ozone Depleting Substances	1.95		8.55
	Sulfur Trioxide	0.02		0.09
	Sulfuric acid	0.568		2.487
FUG 0002 2-06	Hydrofluoric acid	0.02	0.02	0.10
FUG 0003 3-97	Hydrofluoric acid	0.02	0.02	0.07
FUG 0004 4-02	Arsenic (and compounds)	<0.001	<0.001	<0.001
	Total suspended particulate	0.05	0.06	0.02
FUG 0005 5-02	Arsenic (and compounds)	<0.001	<0.001	<0.001
	Total suspended particulate	0.05	0.06	0.02
FUG 0006 6-02	Arsenic (and compounds)	<0.001	<0.001	<0.001
	Total suspended particulate	0.05	0.06	0.02
FUG 0007 7-02	Arsenic (and compounds)	<0.001	<0.001	<0.001
	Total suspended particulate	0.05	0.06	0.02
FUG 0008 8-02	Arsenic (and compounds)	<0.001	<0.001	<0.001
	Total suspended particulate	0.05	0.06	0.02
FUG 0009 9-02	Arsenic (and compounds)	<0.001	<0.001	<0.001
	Total suspended particulate	0.05	0.06	0.02
FUG 0010 10-02	Arsenic (and compounds)	<0.001	<0.001	<0.001
	Total suspended particulate	0.01	<0.01	<0.01
FUG 0011 11-02	Arsenic (and compounds)	<0.001	<0.001	<0.001
	Total suspended particulate	<0.01	<0.01	0.01
FUG 0012 12-02	Total suspended particulate	2.92	4.39	6.41
FUG 0013 13-02	Arsenic (and compounds)	<0.001	<0.001	<0.001
	Total suspended particulate	<0.01	<0.01	<0.01
FUG 0014 14-02	Arsenic (and compounds)	<0.001	<0.001	<0.001
	Total suspended particulate	<0.01	<0.01	<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0015 15-02	Arsenic (and compounds)	<0.001	<0.001	<0.001
	Total suspended particulate	<0.01	<0.01	0.02
FUG 0016 16-02	Arsenic (and compounds)	<0.001	<0.001	<0.001
	Total suspended particulate	<0.01	<0.01	0.02
FUG 0017 25-02	Total suspended particulate	0.18	0.20	0.77
UNF 0002 Geismar Complex	1,3-Butadiene			0.001
	2,2,4-Trimethylpentane			<0.01
	Acetaldehyde			0.003
	Acrolein			<0.001
	Arsenic (and compounds)			0.19
	Benzene			0.01
	Chlorine			0.42
	Cumene			<0.01
	Ethyl benzene			<0.01
	Formaldehyde			0.22
	Hydrofluoric acid			6.20
	Mercury (and compounds)			<0.01
	Methanol			0.11
	Methyl Tertiary Butyl Ether			0.08
	Naphthalene			<0.001
	Nitric acid			0.12
	Ozone Depleting Substances			8.55
	Polynuclear Aromatic Hydrocarbons			<0.001
	Sulfur Trioxide			5.36
	Sulfuric acid			2.57
	Toluene			0.01
	Total suspended particulate			54.61
	Xylene (mixed isomers)			<0.01
	n-Hexane			<0.001

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

EQT 0004 2-04 - Clarifier Diesel Generator Engine

- 1 [40 CFR 63.6645(d)]
 2 [LAC 33.III.1101.B] Submit an initial notification meeting the requirements of 40 CFR Subpart ZZZZ. [40 CFR 63.6645(d)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

EQT 0005 3-04 - HF Diesel Generator Engine

- 4 [40 CFR 63.6645(d)]
 5 [LAC 33.III.1101.B] Submit an initial notification meeting the requirements of 40 CFR Subpart ZZZZ. [40 CFR 63.6645(d)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

EQT 0006 89-10 - Sulfuric Acid Storage Tank U-202 (99.2% H2SO4)

- 7 [LAC 33.III.1109.A] Emits a Class III TAP only. MACT is not required.

EQT 0007 89-15 - HF Tail Gas Scrubber System

- 8 [40 CFR 63.1103(c)] Establish a minimum liquid flow rate (this may be done by analysis). Subpart YY. [40 CFR 63.1103(c)]
 Hydrogen fluoride >= 99 % removal efficiency (by weight) by venting emissions through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified
 Flow rate monitored by flow rate monitoring device continuously. Monitor the liquid flow rate, as specified in 40 CFR 63.996 and 63.998(b), (c) and (d)(3). Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified
 Hydrogen fluoride >= 99 % removal efficiency (by weight) by venting displacement emissions created by normal filling or emptying activities through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
 Activity Number: PER20090008
 Permit Number: 2394-V1
 Air - Title V Regular Permit Major Mod

EQT 0007 89-15 - HF Tail Gas Scrubber System

- 12 [40 CFR 63.1103(c)] Flow rate recordkeeping by the regulations specified method(s) at the regulation's specified frequency. Keep records as specified in 40 CFR 63.996 and 63.998(b), (c) and (d)(3). Subpart YY. [40 CFR 63.1103(c)]
 Load hydrogen fluoride only into tank trucks and railcars that have a current certification in accordance with the U.S. DOT pressure test requirements of 49 CFR 180 for tank trucks and 49 CFR 173.31 for railcars, or have been demonstrated to be vapor-tight within the preceding 12 months. Subpart YY. [40 CFR 63.1103(c)]
 Hydrogen fluoride >= 99 % removal efficiency (by weight) Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified
 Flow rate >= 40 gallons/min - SO2 Scrubber. Permittee shall maintain the SiF4 removal efficiency from overall scrubber system at no less than 99%.
 Compliance with NESHAP 40 CFR 63 Subpart YY has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

EQT 0008 89-40 - Oleum (104.2% H2SO4) Storage Tank U-203

- 17 [LAC 33:III.5109.A] Emits a Class III TAP only. MACT is not required.

EQT 0009 89-47 - Fluorspar Silo

- 18 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Filter vents: Visible emissions monitored by visual inspection/determination daily. If visible emissions are observed, return the filter to proper operation as expeditiously as practicable, but at a maximum within three working days, in accordance with good air pollution control practices for minimizing emissions.
 Which Months: All Year Statistical Basis: None specified
 Filter vents: Equipment/operational data recordkeeping by electronic or hard copy daily. Keep the purchase order or manufacturer certification showing that the installed filters meet the Manufacturer's specification for particulate matter removal efficiency or the filter MERV rating, as applicable; records of visible emissions checks or differential pressure gauge readings, as applicable; and records of maintenance activities. Keep records on site for a period of at least five years and available for review by the Office of Environmental Compliance.
 Filter vents: Opacity monitored by technically sound method upon occurrence of event. Monitor during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags by either a Continuous Monitoring System (COMS) that meets the requirements of 40 CFR 60 Appendix B Performance Specification 1, a qualified, certified visible emissions inspector, in accordance with 40 CFR 60 Appendix A Method 9, or 40 CFR 60 Appendix A Method 22, if the emission point generally exhibits no visible emissions. If Method 22 is used, perform an opacity reading according to 40 CFR 60 Appendix A Method 9 within 1 hour, if visible emissions are present at greater than fifteen percent opacity. Ensure that the BMP plan specifies when opacity readings will be taken in lieu of no visible emissions and the frequency at which readings of percent opacity will be taken.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20090008
Permit Number: 2394-V1
Air - Title V Regular Permit Major Mod

EQT 0009 89-47 - Flourspar Silo

- 22 [LAC 33:III.501.C.6] Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and maintenance activities on site for a period of at least five years and available for inspection by the Office of Environmental Compliance.
- 23 [LAC 33:III.501.C.6] Particulate matter (10 microns or less) <= 0.02 gr/dscf.
 Which Months: All Year Statistical Basis: None specified
 Particulate matter (10 microns or less) >= 99.5 % removal efficiency from filter manufacturer's certification.
- 24 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
 Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever a visible emissions check indicates maintenance may be necessary. Change elements as necessary.
- 25 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
 Filter vents: Opacity <= 20 percent average of the shade or appearance of the emission during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags.
- 26 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Emissions are controlled by a baghouse which is considered MACT.
- 27 [LAC 33:III.5109.A.1]

EQT 0010 89-48 - Flourspar Use Silo No. 1

- 28 [LAC 33:III.1311.C] Opacity <= 20 percent; except: emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Filter vents: Visible emissions monitored by visual inspection/determination daily. If visible emissions are observed, return the filter to proper operation as expeditiously as practicable, but at a maximum within three working days, in accordance with good air pollution control practices for minimizing emissions.
- 29 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
 Filter vents: Opacity <= 20 percent average of the shade or appearance of the emission during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags.
 Which Months: All Year Statistical Basis: None specified
 Filter vents: Opacity monitored by technically sound method upon occurrence of event. Monitor during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags by either a Continuous Monitoring System (COMS) that meets the requirements of 40 CFR 60 Appendix B Performance Specification 1, a qualified, certified visible emissions inspector, in accordance with 40 CFR 60 Appendix A Method 9, or 40 CFR 60 Appendix A Method 22, if the emission point generally exhibits no visible emissions. If Method 22 is used, perform an opacity reading according to 40 CFR 60 Appendix A Method 9 within 1 hour, if visible emissions are present at greater than fifteen percent opacity. Ensure that the BMP plan specifies when opacity readings will be taken in lieu of no visible emissions and the frequency at which readings of percent opacity will be taken.
- 30 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- 31 [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
 Activity Number: PER20090008
 Permit Number: 2394-V1
 Air - Title V Regular Permit Major Mod

EQT 0010 89-48 - Fluorspar Use Silo No. 1

- 32 [LAC 33:III.501.C.6] Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever a visible emissions check indicates maintenance may be necessary. Change elements as necessary.
 Which Months: All Year Statistical Basis: None specified
- 33 [LAC 33:III.501.C.6] Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and maintenance activities on site for a period of at least five years and available for inspection by the Office of Environmental Compliance.
- 34 [LAC 33:III.501.C.6] Particulate matter (10 microns or less) <= 0.02 gr/dscf.
 Which Months: All Year Statistical Basis: None specified
- Particulate matter (10 microns or less) >= 99.5 % removal efficiency from filter manufacturer's certification.
- 35 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- 36 [LAC 33:III.501.C.6] Filter vents: Equipment/operational data recordkeeping by electronic or hard copy daily. Keep the purchase order or manufacturer certification showing that the installed filters meet the Manufacturer's specification for particulate matter removal efficiency or the filter MERV rating, as applicable; records of visible emissions checks or differential pressure gauge readings, as applicable; and records of maintenance activities.
- Keep records on site for a period of at least five years and available for review by the Office of Environmental Compliance.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- Emissions are controlled by a baghouse which is considered MACT.

EQT 0011 89-51 - Lime Storage Silo 1

- 38 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
- Vents shall be visually inspected for opacity on a daily basis. The filter elements (bags) shall be inspected every six months and changed as necessary. Records of opacity checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- Shall maintain baghouse on the emission point at 99.5% or greater efficiency with a maximum concentration of particulate exiting the stack of 0.02 gr/sec.

EQT 0012 89-54 - Fluorspar Dryer

- 41 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
- Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

EQT 0012 89-54 - Fluorspar Dryer

- 43 [LAC 33:III.501.C.6] Shall maintain baghouse on the emission point at 99.5% or greater efficiency with a maximum concentration of particulate exiting the stack of 0.02 gr/scf.
 Vents shall be visually inspected for opacity on a daily basis. The filter elements (bags) shall be inspected every six months and changed as necessary. Records of opacity checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. STATE ONLY. Emissions are controlled by a baghouse which is considered MACT.

EQT 0013 89-56 - HF Furnace No. 3 Air Heater Seal

- 46 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
- 47 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified

EQT 0014 89-56A - HF Furnace No. 3 Air Heater

- 48 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
- 49 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified

EQT 0015 89-57 - HF Furnace No. 4 Air Heater Seal

- 50 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
- 51 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified

EQT 0016 89-57A - HF Furnace No. 4 Air Heater

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

EQT 0016 89-57A - HF Furnace No. 4 Air Heater

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

EQT 0017 89-58 - Flourspar Use Silo No. 2

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and maintenance activities on site for a period of at least five years and available for inspection by the Office of Environmental Compliance.

Filter vents: Visible emissions monitored by visual inspection/determination daily. If visible emissions are observed, return the filter to proper operation as expeditiously as practicable, but at a maximum within three working days, in accordance with good air pollution control practices for minimizing emissions.

Which Months: All Year Statistical Basis: None specified
Filter vents: Equipment/operational data recordkeeping by electronic or hard copy daily. Keep the purchase order or manufacturer certification showing that the installed filters meet the Manufacturer's specification for particulate matter removal efficiency or the filter MERV rating, as applicable; records of visible emissions checks or differential pressure gauge readings, as applicable; and records of maintenance activities. Keep records on site for a period of at least five years and available for review by the Office of Environmental Compliance.

Filter vents: Opacity <= 20 percent average of the shade or appearance of the emission during the first ninety seconds of startup of a unit ruled to the filter and for one minute following the installation of new bags or the cleaning of existing bags.

Which Months: All Year Statistical Basis: None specified
Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever a visible emissions check indicates maintenance may be necessary. Change elements as necessary.

Which Months: All Year Statistical Basis: None specified

Particulate matter (10 microns or less) <= 0.02 gr/dscf.

Which Months: All Year Statistical Basis: None specified

Particulate matter (10 microns or less) >= 99.5 % removal efficiency from filter manufacturer's certification.

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
 Activity Number: PER20090008
 Permit Number: 2394-V1
Air - Title V Regular Permit Major Mod

EQT 0017 89-58 - Fluorspar Use Silo No. 2

- 62 [LAC 33:III.501.C.6] Filter vents: Opacity monitored by technically sound method upon occurrence of event. Monitor during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags by either a Continuous Monitoring System (COMS) that meets the requirements of 40 CFR 60 Appendix B Performance Specification 1, a qualified, certified visible emissions inspector, in accordance with 40 CFR 60 Appendix A Method 9, or 40 CFR 60 Appendix A Method 22, if the emission point generally exhibits no visible emissions. If Method 22 is used, perform an opacity reading according to 40 CFR 60 Appendix A Method 9 within 1 hour, if visible emissions are present at greater than fifteen percent opacity. Ensure that the BMP plan specifies when opacity readings will be taken in lieu of no visible emissions and the frequency at which readings of percent opacity will be taken.
 Which Months: All Year Statistical Basis: None specified
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Emissions are controlled by a baghouse which is considered MACT.
- 63 [LAC 33:III.5109.A.1]

EQT 0018 89-62 - Clarifier Lime Silo

- 64 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Shall maintain baghouse on the emission point at 99.5% or greater efficiency with a maximum concentration of particulate exiting the stack of 0.02 gr/scf.
 Vents shall be visually inspected for opacity on a daily basis. The filter elements (bags) shall be inspected every six months and changed as necessary. Records of opacity checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- 65 [LAC 33:III.501.C.6]
- 66 [LAC 33:III.501.C.6]

EQT 0023 89-65 - Aqueous HF Storage Vent Scrubber

- 67 [40 CFR 63.1103(c)] Flow rate recordkeeping by the regulation's specified method(s) at the regulation's specified frequency. Keep records as specified in 40 CFR 63.996 and 63.998(b), (c) and (d)(3). Subpart YY. [40 CFR 63.1103(c)]
 Hydrogen fluoride >= 99 % removal efficiency (by weight). Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified
 Hydrogen fluoride >= 99 % removal efficiency (by weight) by venting emissions through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified
 Load hydrogen fluoride only into tank trucks and railcars that have a current certification in accordance with the U.S. DOT pressure test requirements of 49 CFR 180 for tank trucks and 49 CFR 173.31 for railcars, or have been demonstrated to be vapor-tight within the preceding 12 months. Subpart YY. [40 CFR 63.1103(c)]
 Hydrogen fluoride >= 99 % removal efficiency (by weight) by venting displacement emissions created by normal filling or emptying activities through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified
- 68 [40 CFR 63.1103(c)]
- 69 [40 CFR 63.1103(c)]
- 70 [40 CFR 63.1103(c)]
- 71 [40 CFR 63.1103(c)]

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394.V1

Air - Title V Regular Permit Major Mod

EQT 0023 89-65 - Aqueous HF Storage Vent Scrubber

- 72 [40 CFR 63.1103(c)] Flow rate monitored by flow rate monitoring device continuously. Monitor the liquid flow rate, as specified in 40 CFR 63.996 and 63.998(b), (c) and (d)(3). Subpart YY. [40 CFR 63.1103(c)]
Which Months: All Year Statistical Basis: None specified
Establish a minimum liquid flow rate (this may be done by analysis). Subpart YY. [40 CFR 63.1103(c)]
Flow rate >= 0.7 gallons/min. Permittee shall maintain the HF removal efficiency at no less than 99%.
Emits a Class III TAP only. MACT is not required.

EQT 0024 89-72 - Fire Water Pump Engine #1

- 76 [LAC 33.III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: None specified
Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average
- 77 [LAC 33.III.1311.C]

EQT 0025 89-74 - Fire Water Pump Engine #2

- 78 [LAC 33.III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: None specified
Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average
- 79 [LAC 33.III.1311.C]

EQT 0026 89-83 - Unleaded Gasoline Storage Tank

- 80 [LAC 33.III.2103.A] Equip with a submerged fill pipe.
81 [LAC 33.III.2103.II.3] Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2103.H.3.a-e.
82 [LAC 33.III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.
Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33.III.5109. STATE ONLY. Emits Class I and/or Class II TAP [less than the MER (facility wide). No further control is required.

EQT 0028 1-96A - HF Additives Unit 1 Fume Scrubber

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

EQT 0028 1-96A - HF Additives Unit 1 Fume Scrubber

Establish a minimum liquid flow rate (this may be done by analysis). Subpart YY. [40 CFR 63.1103(c)]
 Hydrogen fluoride >= 99 % removal efficiency (by weight) by venting displacement emissions created by normal filling or emptying activities through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified
 Flow rate monitored by flow rate monitoring device continuously. Monitor the liquid flow rate, as specified in 40 CFR 63.996 and 63.998(b), (c) and (d)(3). Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified
 Hydrogen fluoride >= 99 % removal efficiency (by weight). Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified
 Hydrogen fluoride >= 99 % removal efficiency (by weight) by venting emissions through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified

Flow rate recordkeeping by the regulation's specified method(s) at the regulation's specified frequency. Keep records as specified in 40 CFR 63.996 and 63.998(b), (c) and (d)(3). Subpart YY. [40 CFR 63.1103(c)]
 Load hydrogen fluoride only into tank trucks and railcars that have a current certification in accordance with the U.S. DOT pressure test requirements of 49 CFR 180 for tank trucks and 49 CFR 173.31 for railcars, or have been demonstrated to be vapor-tight within the preceding 12 months. Subpart YY. [40 CFR 63.1103(c)]
 Flow rate >= 6.5 gallons/min per design. Permittee shall maintain the HF removal efficiency at no less than 99%.

Emits a Class III TAP only. MACT is not required.

EQT 0029 1-97 - North Cooling Water Tower 1

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Emits a Class I TAP. No control is determined to be MACT.

EQT 0030 1-02 - HF Plant South Cooling Water Tower

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Emits a Class I TAP. No control is determined to be MACT.

EQT 0031 2-02 - Clarifier Diesel Pump Engine

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified

SPRECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

EQT 0031 2-02 - Clarifier Diesel Pump Engine

96 [LAC 33.III.1311.C]

Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0032 3-02A - Furnace Rotator Engine No. 1

97 [LAC 33.III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0033 3-02B - Furnace Rotator Engine No. 2

99 [LAC 33.III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0034 3-02C - Furnace Rotator Engine No. 3

101 [LAC 33.III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0035 3-02D - Furnace Rotator Engine No. 4

SPECIFIC REQUIREMENTS**All ID: 2082 - Honeywell International Inc - Geismar Complex****Activity Number: PER20090008****Permit Number: 2394-V1****Air - Title V Regular Permit Major Mod****EQT 0035 3-02D - Furnace Rotator Engine No. 4**

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0036 17-02 - Atlas Copco Air Compressor

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0037 18-02 - Brambles Sullair Air Compressor

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0038 19-02 - Ingersol Rand Air Compressor

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

STRENGTH REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

EQT 0039 20-02 - Emergency River Water Pump

111 [LAC 33.III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0040 21-02 - Emergency Sump Pump

113 [LAC 33.III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0041 24-02 - HF Laboratory Hoods

115 [LAC 33.III.5109.A]

Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33.III.5109. STATE ONLY. Emits Class III TAP only. MACT is not required.

EQT 0042 1-05 - Tank U-802

116 [LAC 33.III.5109.A]

Emits a Class III TAP only. MACT is not required.

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EQT 0043 2-05 - Tank U-804

117 [LAC 33.III.5109.A]

Emits a Class III TAP only. MACT is not required.

EQT 0044 3-05 - Sulfuric Acid Tank

118 [LAC 33.III.5109.A]

Emits a Class III TAP only. MACT is not required.

EQT 0045 4-05 - Catalyst Transfer

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

EQT 0045 4-05 - Catalyst Transfer

119 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0047 10-05 - North Cooling Water Tower 2

120 [LAC 33:III.5109.A.] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Emits a Class 1 TAP. No control is determined to be MACT.

EQT 0048 11-05 - HF Furnace No. 1 Air Heater Seal

121 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

EQT 0049 11-05A - HF Furnace No. 1

122 [LAC 33:III.1313.C] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

EQT 0050 12-05 - HF Furnace No. 2 Air Heater Seal

123 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

EQT 0051 12-05A - HF Furnace No. 2

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

EQT 0051 12-05A - HF Furnace No. 2

127 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

128 [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

EQT 0052 89-71 - Clarifier Diesel Generator Engine

129 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

130 [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0054 Tank U-501 - Tank U-501

131 [40 CFR 63.1103(c)]

Hydrogen fluoride >= 99 % removal efficiency (by weight) by venting displacement emissions created by normal filling or emptying activities through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]

132 [40 CFR 63.1103(c)]

Hydrogen fluoride >= 99 % removal efficiency (by weight) by venting displacement emissions created by normal filling or emptying activities through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]

EQT 0055 Tank U-711 - Tank U-711

133 [40 CFR 63.1103(c)]

Hydrogen fluoride >= 99 % removal efficiency (by weight) by venting displacement emissions created by normal filling or emptying activities through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]

EQT 0057 Truck Loading - Truck Loading

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

EQT 0057 Truck Loading - Truck Loading

- Load hydrogen fluoride only into tank trucks and railcars that have a current certification in accordance with the U.S. DOT pressure test requirements of 49 CFR 180 for tank trucks and 49 CFR 173.31 for railcars, or have been demonstrated to be vapor-tight within the preceding 12 months. Subpart YY. [40 CFR 63.1103(c)]
Hydrogen fluoride $\geq 99\%$ removal efficiency (by weight) by venting emissions through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]
- Which Months: All Year Statistical Basis: None specified
Equip with one of the control options listed in 40 CFR 63.1105(a)(1) through (a)(4). Subpart YY. [40 CFR 63.1105(a)]
Operate in such a manner that emissions are routed through the equipment specified in 40 CFR 63.1105(a). Subpart YY. [40 CFR 63.1105(b)]
Ensure that the control device is operating whenever HAP emissions are vented. Subpart YY. [40 CFR 63.1105(c)]
Load HAP-containing materials only into tank trucks and railcars that meet the requirement in 40 CFR 63.1105(d)(1) or (2). Subpart YY. [40 CFR 63.1105(d)]
Ensure that no pressure relief device in the loading equipment of each tank truck or railcar begins to open to the atmosphere during loading.
Subpart YY. [40 CFR 63.1105(e)]
Load HAP-containing materials only to tank trucks or railcars equipped with a vapor collection system that is compatible with the transfer rack's closed vent system or process piping. Subpart YY. [40 CFR 63.1105(f)]
Load HAP-containing material only to tank trucks or railcars whose collection systems are connected to the transfer rack's closed vent system or process piping. Subpart YY. [40 CFR 63.1105(g)]
Equipment/operational data recordkeeping by electronic or hard copy continuously. Record that the verification of DOT tank certification or 40 CFR 60 Appendix A, Test Method 27 testing required in 40 CFR 63.84(c) has been performed. Subpart YY. [40 CFR 63.1105(h)]
Emits a Class III TAP only. MACT is not required.

EQT 0058 Loading Rack - Aqueous HF Loading Rack

- Load hydrogen fluoride only into tank trucks and railcars that have a current certification in accordance with the U.S. DOT pressure test requirements of 49 CFR 180 for tank trucks and 49 CFR 173.31 for railcars, or have been demonstrated to be vapor-tight within the preceding 12 months. Subpart YY. [40 CFR 63.1103(c)]
Hydrogen fluoride $\geq 99\%$ removal efficiency (by weight) by venting emissions through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]
- Which Months: All Year Statistical Basis: None specified
Equip with one of the control options listed in 40 CFR 63.1105(a)(1) through (a)(4). Subpart YY. [40 CFR 63.1105(a)]
Operate in such a manner that emissions are routed through the equipment specified in 40 CFR 63.1105(a). Subpart YY. [40 CFR 63.1105(b)]
Ensure that the control device is operating whenever HAP emissions are vented. Subpart YY. [40 CFR 63.1105(c)]
Load HAP-containing materials only into tank trucks and railcars that meet the requirement in 40 CFR 63.1105(d)(1) or (2). Subpart YY. [40 CFR 63.1105(d)]
Ensure that no pressure relief device in the loading equipment of each tank truck or railcar begins to open to the atmosphere during loading.
Subpart YY. [40 CFR 63.1105(e)]

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
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EQT 0058 Loading Rack - Aqueous HF Loading Rack

- 152 [40 CFR 63.1105(f)] Load HAP-containing materials only to tank trucks or railcars equipped with a vapor collection system that is compatible with the transfer rack's closed vent system or process piping. Subpart YY. [40 CFR 63.1105(f)]
- 153 [40 CFR 63.1105(g)] Load HAP-containing material only to tank trucks or railcars whose collection systems are connected to the transfer rack's closed vent system or process piping. Subpart YY. [40 CFR 63.1105(g)]
- 154 [40 CFR 63.1105(i)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Record that the verification of DOT tank certification or 40 CFR 60 Appendix A, Test Method 27 testing required in 40 CFR 63.84(c) has been performed. Subpart YY. [40 CFR 63.1105(i)]
- 155 [LAC 33.III.5109.A] Emits a Class III TAP only. MACT is not required.

EQT 0059 Unit 1 Loading Rack - Additives Unit 1 Truck Loading Rack

- 156 [40 CFR 63.1103(c)] Hydrogen fluoride >= 99 % removal efficiency (by weight) by venting emissions through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]
- 157 [40 CFR 63.1103(c)] Which Months: All Year Statistical Basis: None specified Load hydrogen fluoride only into tank trucks and railcars that have a current certification in accordance with the U.S. DOT pressure test requirements of 49 CFR 180 for tank trucks and 49 CFR 173.31 for railcars, or have been demonstrated to be vapor-tight within the preceding 12 months. Subpart YY. [40 CFR 63.1103(c)]
- 158 [40 CFR 63.1105(a)] Equip with one of the control options listed in 40 CFR 63.1105(a)(1) through (a)(4). Subpart YY. [40 CFR 63.1105(a)]
- 159 [40 CFR 63.1105(b)] Operate in such a manner that emissions are routed through the equipment specified in 40 CFR 63.1105(a). Subpart YY. [40 CFR 63.1105(b)]
- 160 [40 CFR 63.1105(c)] Ensure that the control device is operating whenever HAP emissions are vented. Subpart YY. [40 CFR 63.1105(c)]
- 161 [40 CFR 63.1105(d)] Load HAP-containing materials only into tank trucks and railcars that meet the requirement in 40 CFR 63.1105(d)(1) or (2). Subpart YY. [40 CFR 63.1105(d)]
- 162 [40 CFR 63.1105(e)] Ensure that no pressure relief device in the loading equipment of each tank truck or railcar begins to open to the atmosphere during loading. Subpart YY. [40 CFR 63.1105(e)]
- 163 [40 CFR 63.1105(f)] Load HAP-containing materials only to tank trucks or railcars equipped with a vapor collection system that is compatible with the transfer rack's closed vent system or process piping. Subpart YY. [40 CFR 63.1105(f)]
- 164 [40 CFR 63.1105(g)] Load HAP-containing material only to tank trucks or railcars whose collection systems are connected to the transfer rack's closed vent system or process piping. Subpart YY. [40 CFR 63.1105(g)]
- 165 [40 CFR 63.1105(i)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Record that the verification of DOT tank certification or 40 CFR 60 Appendix A, Test Method 27 testing required in 40 CFR 63.84(c) has been performed. Subpart YY. [40 CFR 63.1105(i)]
- 166 [LAC 33.III.5109.A] Emits a Class III TAP only. MACT is not required.

EQT 0061 89-37 - HF Furnaces Air Heater No. 1

- 167 [LAC 33.III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. (Complies by using sweet natural gas as fuel).
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

EQT 0061 89-37 - HF Furnace Air Heater No. 1

168 [LAC 33.III.1313.C]

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified

EQT 0062 89-38 - HF Furnace Air Heater No. 2

169 [LAC 33.III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

170 [LAC 33.III.1313.C]

Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified

EQT 0063 1-06 - Tank U-876

171 [40 CFR 63.1103(c)]

Hydrogen fluoride >= 99 % removal efficiency (by weight) by venting displacement emissions created by normal filling or emptying activities through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified

EQT 0064 2-06 - Tank U-877

172 [40 CFR 63.1103(c)]

Hydrogen fluoride >= 99 % removal efficiency (by weight) by venting displacement emissions created by normal filling or emptying activities through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified

EQT 0126 Tank U-502 - Tank U-502

173 [40 CFR 63.1103(c)]

Hydrogen fluoride >= 99 % removal efficiency (by weight) by venting displacement emissions created by normal filling or emptying activities through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified

EQT 0127 1-09 - HF Utility Boiler

174 [40 CFR 60.48c(a)]

Submit notification: Due as specified in 40 CFR 60.7. Submit the date of construction or reconstruction and actual startup. Include the information specified in 40 CFR 60.48c(a)(1) through (a)(4) as applicable. Subpart Dc. [40 CFR 60.48c(a)]
 Include in the fuel supplier certification required in 40 CFR 60.48c(e)(11) the information specified in 40 CFR 60.48c(f)(1) through (f)(4).
 Subpart Dc. [40 CFR 60.48cf(f)]
 Fuel rate recordkeeping by electronic or hard copy daily. Keep records of the amount of each fuel combusted during each day. Subpart Dc. [40 CFR 60.48c(g)(1)]

STRENGTH REQUIREMENTS

AIID: 2082 - Honeywell International Inc - Getsmar Complex

Activity Number: PER20090008

Permit Number: 2394-V1

Air - Title V Regular Permit Major Mod

EQT 0127 1-09 - HF Utility Boiler

- 177 [40 CFR 60.48c(i)]
178 [LAC 33.III.1101.B] Maintain all records required under 40 CFR 60.48c for a period of 2 years following the date of such record. Subpart Dc. [40 CFR 60.48c(i)]
Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 179 [LAC 33.III.1313.C] Which Months: All Year Statistical Basis: None specified
Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 180 [LAC 33.III.2201.D.1] Nitrogen oxides <= 0.20 lb/MMBTU.
- 181 [LAC 33.III.2201.G.2] Which Months: May-Sep Statistical Basis: Thirty-day rolling average.
Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33.III.2201.D or used in one of the alternative plans of LAC 33.III.2201.E, as specified in LAC 33.III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33.III.Chapter 22. Also measure CO, SO2, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.
- 182 [LAC 33.III.2201.H.1.a.i] Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
Which Months: May-Sep Statistical Basis: None specified
- 183 [LAC 33.III.2201.H.1.a.ii] Oxygen monitored by the regulation's specified method(s) continuously. Monitor oxygen concentration with an oxygen monitor.
Which Months: May-Sep Statistical Basis: None specified
- 184 [LAC 33.III.2201.H.1.a.iii] Implement procedures to operate the boiler within the fuel and oxygen limits established during the initial compliance run in accordance with LAC 33.III.2201.G to continuously demonstrate compliance with the NOx limits of LAC 33.III.2201.D or E.
- 185 [LAC 33.III.2201.I.1] Submit test results: Due within 60 days after completing the emission testing required in LAC 33.III.2201.I.1.
- 186 [LAC 33.III.2201.I.1] Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33.III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33.III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.
- 187 [LAC 33.III.2201.I.2] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33.III.2201.D or E. Include the information specified in LAC 33.III.2201.I.2.a through I.2.d.
- 188 [LAC 33.III.2201.I.] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33.III.2201.I.3 and I.4, as applicable.

EQT 0128 10-09 - Tank U-821

- 189 [LAC 33.III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

FUG 0001 89-64 - HF Plant Fugitive Emissions

- 190 [40 CFR 63.1103(c)] Begin repairing leaks no later than one hour after a leak is detected, and complete repairs as soon as practical. Subpart YY. [40 CFR 63.1103(c)]

SPECIFIC REQUIREMENTS

All ID: 2082 - Honeywell International Inc - Geismar Complex
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FUG 0001 89-64 - HF Plant Fugitive Emissions

- 191 [40 CFR 63.1103(c)]
 Equipment/operational data monitored by technically sound method at the regulation's specified frequency. Perform sensory monitoring at least once every shift, but no later than within 15 days. Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified
 Presence of a leak recordkeeping by electronic or hard copy upon each occurrence of a leak. Keep records of each leak detected and repaired, including equipment identification number, date and time the leak was detected and that repair was initiated, and the date of successful repair.
 Subpart YY. [40 CFR 63.1103(c)]
- 192 [40 CFR 63.1103(c)]
 Control hydrogen fluoride emissions by using leakless pumps and by implementing a sensory monitoring leak detection program. Identify equipment that is excluded from sensory monitoring because it operates less than 300 hours per year or is in vacuum service by list, location, or other method, and record the identity. Subpart YY. [40 CFR 63.1103(c)]
- 193 [40 CFR 63.1103(c)]
 Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- 194 [LAC 33:III.1513.C]
 Compliance with NESHAP 40 CFR 63 Subpart YY has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.
- 195 [LAC 33:III.5109.A.1]

FUG 0002 2-96 - HF Additives Unit 1 Fugitives

- 196 [40 CFR 63.1103(c)]
 Equipment/operational data monitored by technically sound method at the regulation's specified frequency. Perform sensory monitoring at least once every shift, but no later than within 15 days. Subpart YY. [40 CFR 63.1103(c)]
 Which Months: All Year Statistical Basis: None specified
 Presence of a leak recordkeeping by electronic or hard copy upon each occurrence of a leak. Keep records of each leak detected and repaired, including equipment identification number, date and time the leak was detected and that repair was initiated, and the date of successful repair.
 Subpart YY. [40 CFR 63.1103(c)]
- 197 [40 CFR 63.1103(c)]
 Control hydrogen fluoride emissions by using leakless pumps and by implementing a sensory monitoring leak detection program. Identify equipment that is excluded from sensory monitoring because it operates less than 300 hours per year or is in vacuum service by list, location, or other method, and record the identity. Subpart YY. [40 CFR 63.1103(c)]
- 198 [40 CFR 63.1103(c)]
 Begin repairing leaks no later than one hour after a leak is detected, and complete repairs as soon as practical. Subpart YY. [40 CFR 63.1103(c)]
- 199 [40 CFR 63.1103(c)]
 Emits a Class III TAP only. MACT is not required.
- 200 [LAC 33:III.5109.A.1]

FUG 0003 3-97 - Cooling Pond Fugitive Emissions

- 201 [LAC 33:III.5109.A]
 Emits a Class III TAP only. MACT is not required.

FUG 0004 4-02 - Clam Shell Fugitives

- 202 [LAC 33:III.1511.C]
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

SPRECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex

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FUG 0004 4-02 - Clam Shell Fugitives

203 [LAC 33:III.5109.A.1]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Emits a Class I TAP. No control is determined to be MACT.

FUG 0005 5-02 - Gantry Fugitives

204 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Emits a Class I TAP. No control is determined to be MACT.

FUG 0006 6-02 - Belt 1-2 Transfer Fugitives

206 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Emits a Class I TAP. No control is determined to be MACT.

FUG 0007 7-02 - Belt 2-3 Transfer Fugitives

208 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Emits a Class I TAP. No control is determined to be MACT.

FUG 0008 8-02 - Belt 3-4 Transfer Fugitives

210 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Emits a Class I TAP. No control is determined to be MACT.

FUG 0009 9-02 - Belt 4-5 Transfer Fugitives

SPECIFIC REQUIREMENTS

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FUG 0009 9-02 - Belt 4-5 Transfer Fugitives

212 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

213 [LAC 33:III.5109.A.1] Emits a Class I TAP. No control is determined to be MACT.

FUG 0010 10-02 - Spar Storage Building No. 1 Transfer Fugitives

214 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

215 [LAC 33:III.5109.A.1] Emits a Class I TAP. No control is determined to be MACT.

FUG 0011 11-02 - Truck Loading Fugitives

216 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

217 [LAC 33:III.5109.A.1] Emits a Class I TAP. No control is determined to be MACT.

FUG 0012 12-02 - Haul Road Fugitives

218 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

FUG 0013 13-02 - Spar Storage Building No. 2 Transfer Fugitives

219 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

220 [LAC 33:III.5109.A.1] Emits a Class I TAP. No control is determined to be MACT.

FUG 0014 14-02 - Hopper Transfer Fugitives

SPRECIFIC REQUIREMENTS

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FUG 0014 14-02 - Hopper Transfer Fugitives

221 [LAC 33.III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average
Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Emits a Class I TAP. No control is determined to be MACT.

FUG 0015 15-02 - Grizzly Feeder Transfer Fugitives

223 [LAC 33.III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average
Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Emits a Class I TAP. No control is determined to be MACT.

FUG 0016 16-02 - Grizzly Feeder Fugitives

225 [LAC 33.III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average
Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
Emits a Class I TAP. No control is determined to be MACT.

FUG 0017 25-02 - HF Lime Slaker Fugitives

227 [LAC 33.III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

UNF 0002 Geismar Complex - HF Plant

228 [40 CFR 60] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
229 [40 CFR 61.145(b)(1)] Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies.
Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]
Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.

SPECIFIC REQUIREMENTS**AI ID: 2082 - Honeywell International Inc - Geismar Complex****Activity Number: PER20090008****Permit Number: 2394-V1****Air - Title V Regular Permit Major Mod****UNF 0002 Geismar Complex - HF Plant**

- 231 [40 CFR 61.342(b)] Comply with the requirements of 40 CFR 61.342(c) through (h) no later than 90 days following the effective date, unless a waiver of compliance has been obtained under 40 CFR 61.11, or by the initial startup for a new source with an initial startup after the effective date. Subpart FF. [40 CFR 61.342(b)]
- Benzene < 1 Mg/yr (1.1 ton/yr) total quantity. Subpart FF. [40 CFR 61.342(d)(2)(i)]
- Which Months: All Year Statistical Basis: None specified
- Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- Submit report: Due whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 1 Mg/yr (1.1 ton/yr) or more. Submit updates to the information listed in 40 CFR 61.357(a)(1) through (a)(3). Subpart FF. [40 CFR 61.357(b)]
- All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- If a startup, shutdown, malfunction or period of non-operation of one portion of an affected source does not affect the ability of a particular emission point to comply with the specific provisions to which it is subject, then that emission point shall still be required to comply with the applicable provisions of 40 CFR 63 Subpart YY and any of the subparts that are referenced by 40 CFR 63 Subpart YY during startup, shutdown, malfunction, or period of non-operation. Subpart YY. [40 CFR 63.1108(a)(1)]
- Comply with the emission limitations and established parameter ranges at all times except during periods of startup, shutdown, malfunction, or non-operation of the affected source (or specific portion thereof) resulting in cessation of the emissions to which 40 CFR 63 Subpart YY applies, except as specified in 40 CFR 63.1108(a)(2). Subpart YY. [40 CFR 63.1108(a)(1)]
- Comply with the equipment leak requirements at all times except during periods of startup, shutdown, malfunction, process unit shutdown, or non-operation of the affected source (or specific portion thereof) in which the lines are drained and depressurized resulting in cessation of the emissions to which equipment leak requirements apply. Subpart YY. [40 CFR 63.1108(a)(2)]
- Implement, to the extent reasonably available, measures to prevent or minimize excess emissions during startups, shutdowns, and malfunctions. Identify the measures to be taken in the startup, shutdown, and malfunction plan (if applicable). Subpart YY. [40 CFR 63.1108(a)(5)]
- Correct malfunctions as soon as practical after their occurrence. Subpart YY. [40 CFR 63.1108(a)(6)]
- Keep copies of notifications, reports and records required by 40 CFR 63 Subpart YY and subparts referenced by 40 CFR 63 Subpart YY for at least 5 years, unless otherwise specified, except as provided in 40 CFR 63.1109(b). Subpart YY. [40 CFR 63.1109(a)]
- Maintain all records required to be maintained by 40 CFR 63 Subpart YY or a subpart referenced by 40 CFR 63 Subpart YY in such a manner that they can be readily accessed and are suitable for inspection. Retain the most recent 2 years of records onsite or make accessible to an inspector while onsite. The records of the remaining 3 years, where required, may be retained offsite. Subpart YY. [40 CFR 63.1109(c)]
- Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records containing information developed and used to assess control applicability under 40 CFR 63.1103 (e.g., combined total annual emissions of regulated organic HAP). Subpart YY. [40 CFR 63.1109(d)]

SPECIFIC REQUIREMENTS

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Activity Number: PER20090008

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UNF 0002 Geismar Complex - HF Plant

- 245 [40 CFR 63.1110(b)] Submit Notification of Initial Startup: Due within 15 days after initial startup. Send DEQ written notification of the actual date of initial startup. Include the information specified in 40 CFR 63.1110(f). Subpart YY. [40 CFR 63.1110(b)]
- 246 [40 CFR 63.1110(c)] Submit Initial Notification: Due within 1 year after the source becomes subject to 40 CFR 63 Subpart YY. Include the information specified in 40 CFR 63.1110(c)(2) through (c)(7), as applicable, and 63.1110(f). Subpart YY. [40 CFR 63.1110(c)]
- 247 [40 CFR 63.1110(d)] Submit Notification of Compliance Status: Due 240 days after the compliance date, or 60 days after completion of the initial performance test or initial compliance assessment, whichever is earlier. Include the information specified in 40 CFR 63.1110(d)(1)(i), (d)(1)(ii), and (f). Subpart YY. [40 CFR 63.1110(d)]
- 248 [40 CFR 63.1110(e)] Submit Periodic Reports: Due no later than 60 days after the end of each 6-month period. The first report shall cover the 6-month period after the Notification of Compliance Status report is due. Submit the first report no later than the last day of the month that includes the date 8 months (6 months and 60 days) after the Notification of Compliance Status report is due. Include all information specified in 40 CFR 63 Subpart YY and subparts referenced by 40 CFR 63 Subpart YY. Subpart YY. [40 CFR 63.1110(e)]
- 249 [40 CFR 63.1111(a)(1)] Develop a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the affected source during periods of startup, shutdown, and malfunction. Include a program of corrective action for malfunctioning process and air pollution control equipment used to comply with relevant standards under 40 CFR 63 Subpart YY. Address in the plan routine or otherwise predictable CPMS malfunctions. Develop this plan by the compliance date. Subpart YY. [40 CFR 63.1111(a)(1)]
- 250 [40 CFR 63.1111(a)(2)] Operate and maintain the affected source (including associated air pollution control equipment and CPMS) in a manner consistent with safety and good air pollution control practices for minimizing emissions to the extent practical. Subpart YY. [40 CFR 63.1111(a)(2)]
- 251 [40 CFR 63.1111(a)(5)] Revise the startup, shutdown, and malfunction plan within 45 days after an event to include detailed procedures for operating and maintaining the affected source during similar malfunction events and a program of corrective action for similar malfunctions of process or air pollution control equipment or CPMS, if the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the startup, shutdown, and malfunction plan at the time the plan was developed. Subpart YY. [40 CFR 63.1111(a)(5)]
- 252 [40 CFR 63.1111(b)(1)] If actions during a startup, shutdown, and malfunction of an affected source, or of a control device or monitoring system required for compliance (including actions taken to correct a malfunction) are inconsistent with the procedures specified in the plan, state such information in a startup, shutdown, and malfunction report. Submit the startup, shutdown, and malfunction report by the 30th day following the end of each calendar half (or other calendar reporting period, as appropriate), unless the information is submitted with the Periodic Report. Include the information specified in 40 CFR 63.1111(b)(1)(i) through (b)(1)(iv). Subpart YY. [40 CFR 63.1111(b)(1)]
- 253 [40 CFR 63.1111(b)(2)] Any time an action taken during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) during which excess emissions occur is not consistent with the procedures specified in the affected source's plan, report the actions taken for that event within 2 working days after commencing actions inconsistent with the plan, followed by a letter delivered or postmarked within 7 working days after the end of the event. Include in the immediate report the name, title, and signature of the owner or operator or other responsible official who is certifying its accuracy, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred. Subpart YY. [40 CFR 63.1111(b)(2)]
- 254 [40 CFR 63.] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as specified in 40 CFR 63 Subpart A as specified in 40 CFR 63 Subpart YY.

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- Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that the nearest public receptor is beyond the distance to a toxic or flammable endpoint defined in 68.22. [40 CFR 68.12(b)(1)]
 Complete the five-year accident history for the process as provided in 68.42. [40 CFR 68.12(b)(2)]
 Ensure that response actions have been coordinated with local emergency planning and response agencies. [40 CFR 68.12(b)(3)]
 Include in the RMP the certification specified in 68.12(b)(4). [40 CFR 68.12(b)(4)]
 Submit Risk Management Plan (RMP): Due no later than June 21, 1999, or three years after the date on which a regulated substance is first listed under 68.130, or the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999.
 Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g).
 Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13).
 Submit in the RMP information one worst-case release scenario for each Program 1 process. Include the data specified in 68.165(b)(1) through (13).
 Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a).
 Provide in the RMP the emergency response information listed in 68.180(a) through (c).
 Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
 Review and update the RMP as specified in 68.190(b) and submit it in a method and format to a central point specified by EPA prior to June 21, 1999.
 Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided.
 Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences.
 Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h).
 Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e).
 Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
 List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
 Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
 Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more.

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- Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (c) on the offsite consequence analyses.
- Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release.
- Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- Outdoor burning of waste material or other combustible material is prohibited.
- Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only).
- Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HR VOC), which include 1,3-Butadiene, Butene, cis-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene. (State Only).
- Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III Chapter 51 Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III Chapter 51. Subchapter A, after the effective date of the standard d.
- Do not cause a violation of any ambient air standard listed in LAC 33:III. Table 51.2, unless operating in accordance with LAC 33:III.5109.B.
- Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.

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290 [LAC 33:III.5107.A] Submit Annual Emissions Report: Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.

291 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).

292 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.

293 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931.

294 [LAC 33:III.5107.B.4] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii. Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.

295 [LAC 33:III.5107.B.5] Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.

296 [LAC 33:III.5109.C] Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.

297 [LAC 33:III.5113.A.1] Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.

298 [LAC 33:III.5113.A.2] An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.

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- 300 [LAC 33:III.535] Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537.
 [LAC 33:III.535, LAC 33:III.537]
 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert.
- 301 [LAC 33:III.5609.A.1.b] Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning.
- 302 [LAC 33:III.5609.A.2.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency.
- 303 [LAC 33:III.5609.A.3.b] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
 Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7.
- 304 [LAC 33:III.5609.A] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- 305 [LAC 33:III.5901.A] Submit Emission Inventory (EI) Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment.
- 306 [LAC 33:III.919.D] Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.